

**CATEGORY TWO: NON-MOTORIZED CLEANING EQUIPMENT AND TRASH  
RECEPTACLES  
ITEM PURCHASE DESCRIPTIONS**

**NSN: 7240-00-060-6006**

PAIL, UTILITY (PLASTIC): Utility pail shall be in accordance with the following requirements and characteristics:

PAIL STYLE	- Round, with tapered sides for nesting
MATERIAL	- Polyethylene plastic
CAPACITY	- 10 quarts
GRADUATION MARKS	- 1-quart graduations marked on the inside
TOP RIM	- Rim curls outward to improve rigidity
POURING LIP	- Included
BAIL	- Steel
BAIL FINISH	- Galvanized
COLOR	- Blue

WORKMANSHIP: The pail shall be leakproof and free from seams, flash, blisters, cracks, chips, sharp fins, sharp edges, lumps or imbedded foreign material. The bail shall not become deformed or detached from the pail and not exhibit any sign of corrosion.

Unit of Issue – EA (Each)

**NSN: 7240-00-061-1163**

PAIL, UTILITY: Utility pail shall be in accordance with the following requirements and characteristics:

PAIL STYLE	- Round, with tapered sides for nesting
MATERIAL	- Polyethylene plastic
CAPACITY	- 5 quarts
GRADUATION MARKS	- 1-quart graduations marked on the inside
TOP RIM	- Rim curls outward to improve rigidity
POURING LIP	- Included
BAIL	- Steel
BAIL FINISH	- Galvanized
COLOR	- Blue

WORKMANSHIP: The pail shall be leakproof and free from seams, flash, blisters, cracks, chips, sharp fins, sharp edges, lumps or imbedded foreign material. The bail shall not become deformed or detached from the pail and not exhibit any sign of corrosion.

Unit of Issue – EA (Each)

**NSN: 7240-00-246-1097**

PAIL, UTILITY: Utility pail shall be in accordance with the following requirements and characteristics:

PAIL STYLE	- Round, with tapered sides for nesting
MATERIAL	- Polyethylene plastic
CAPACITY	- 12 quarts
GRADUATION MARKS	- 1-quart graduations marked on the inside
TOP RIM	- Rim curls outward to improve rigidity

POURING LIP	- Included
BAIL	- Steel, plastic or rubber coated
BAIL FINISH	- Galvanized
COLOR	- Blue

WORKMANSHIP: The pail shall be leakproof and free from seams, flash, blisters, cracks, chips, sharp fins, sharp edges, lumps or imbedded foreign material. The bail shall not become deformed or detached from the pail and not exhibit any sign of corrosion.

Unit of Issue – EA (Each)

**NSN: 7240-00-274-3875**

PAIL, UTILITY: Lightweight utility pail is intended for general purpose use and shall have the following characteristics:

MATERIAL	- Steel, 0.0097-inch minimum thickness
CAPACITY	- 12 quarts
PAIL DESIGN	- Tapered for nesting
BAIL	- Wire steel bail included
POURING LIP	- Not included
OVERALL HEIGHT	- 9.00 to 11.00 inches
TOP I/D	- 11.00 to 12.500 inches
BOTTOM I/D	- 9.00 TO 10.00 inches
FINISH	- Hot-dip galvanized on both sides IAW normal commercial practice

The bottom and top rims of the pail shall be reinforced with a steel band strip or be integral with a rolled edge or by any other commercial manufacturing method that will provide rigidity. The body of the pail shall be tapered to allow nesting.

Unit of issue - DZ (12 pails/dozen)

**NSN: 7240-00-559-7364**

FUNNEL: Shall be a sturdy funnel, designed for use on automotive transmissions and other "hard to access", filler openings. Shall be similar to Figure 1 and have the following requirements and characteristics:

MATERIAL	- Galvanized steel
SPOUT	- Flexible spout
SPOUT LENGTH	- 14 inch (nominal)
SPOUT DIAMETER	- 0.750 inch
SPOUT TIP	- 0.4375 (7/16) inch, outflow tip diameter
STRAINER	- Removable, 70 mesh brass strainer
CAPACITY	- 1 quart



**Figure 1:** Representational photo only.

Unit of issue - BX (12 per box)

**NSN: 7240-01-094-4305**

PAIL, UTILITY: This utility pail has a removable bail and snap-on lid, used for refuse use. The pail shall have the following requirements and characteristics:

MATERIAL	High density polyethylene
SHAPE	Round w/tapered bottom for nesting purposes
CAPACITY	5 gallons $\pm$ 2 quarts
COLOR	White or gray
BAIL	Included (see below)
LID	Included (snug fitting, snap-on type)

**BAIL:** The bail shall be constructed of corrosion resistant metal, removable, and diametrically attached. The bail shall have at the top center a 3-1/4 inch minimum length plastic sleeve.

The bail ears shall be diametrically positioned and molded into the rim.

**WORKMANSHIP:** Shall be free from seams, flash, blisters, cracks, chips, sharp fins, sharp edges, lumps, imbedded foreign material, and any sign of corrosion if metal handles are used.

All open head pails of 4 to 6 gallon capacity shall have the pails marked with child drowning warning labels to comply with California Assembly Bill No. 2942 (Chapter 43 of the California Statutes of 1992), when these items are for delivery to any facility of the General Services Administration or to any addressee in the state of California.

Unit of Issue - EA (Each)

**NSN: 7240-01-150-0716**

PAIL, UTILITY: The pail shall be resistant to jet fuel, similar fuels and lubricants. The pail shall have a rolled top edge for rigidity with a 1.5 inch vertical skirt (minimum). The pail shall weigh a minimum of 4.5 pounds empty and conform to the following requirements and characteristics:

- PAIL MATERIAL - Neoprene rubber (rigid)
- CAPACITY - 3.0 gallons minimum
- PAIL RIBS - Vertical reinforcement ribs
- POURING LIP - Included ("moulded in" to pail)
- GRADUATION MARKS - internal graduation marks in 1/2 gallon (or smaller) increments
  
- THICKNESS
  - Side wall - 0.156 inch (minimum)
  - Bottom - 0.250 inch (minimum)
  - Bottom edge - 0.437 inch (minimum)
  
- DIMENSIONS
  - Height - 9.50 inches (minimum)
  - Top inside diameter - 11.50 inches (minimum)

BAIL: Stainless steel, minimum thickness 0.25 inch, shall be rubber coated to 0.125 inch (minimum) thickness. Bail retaining clip shall be stainless steel, minimum diameter 0.125 inch

Unit of issue - EA (Each)

**NSN: 7290-00-224-8308**

DUSTPAN: Shall be in accordance with the following characteristics:

Construction. The dustpan shall be constructed so that the front edge shall be in continuous contact with the floor when in use or when pressed to the floor with slight downward pressure applied to the handle. The dustpan shall have a dirt-retaining ridge formed within the pan. The handle shall have a means for attaching to a wall. The front edge of the dustpan shall be 11 to 13 inches (27.9 – 33.0 cm) wide. The side edges shall be a minimum of 7 inches (17.8 cm) long. The handle shall be a minimum of 4 inches (10.2 cm) long.

Materials. The dustpan shall be made from 0.0127-inch (0.32 mm) minimum thickness sheet steel. Seams shall be sealed to prevent dust leakage. The dustpan shall have a durable protective finish to prevent corrosion.

Labeling. The dustpans shall be labeled in a plain and permanent manner with the manufacturer's name or trademark of such known character that the source of manufacture may be readily identified.

Workmanship. The finished dustpan shall function smoothly and efficiently for the purpose intended and shall be free from chipped finish, sharp edges, splits, dents, corrosion, or any other defect affecting appearance or serviceability.

Unit of Issue – EA (Each)

**NSN: 7290-00-616-0109**

DUSTPAN: Shall be in accordance with the following requirements:

Construction. The dustpan shall be constructed so that the front edge shall be in continuous contact with the floor when in use or when pressed to the floor with slight downward pressure applied to the handle.

The dustpan shall have a dirt-retaining ridge formed within the pan. The handle shall have a means for attaching to a wall. The front edge of the dustpan shall be 10-1/2 to 12-1/2 inches (26.7 - 31.8 cm) wide. The side edges shall be a minimum of 7 inches (17.8 cm) long. The handle shall be a minimum of 3-1/2 inches (8.9 cm) long.

Materials. The dustpan shall be a one-piece construction made from natural rubber, synthetic rubber, a combination of natural and synthetic rubber, a combination of plastic and synthetic rubber, or plastic. The plastic shall be either high-density polyethylene or polypropylene.

Labeling. The dustpans shall be labeled in a plain and permanent manner with the manufacturer's name or trademark of such known character that the source of manufacture may be readily identified.

Workmanship. The finished dustpan shall function smoothly and efficiently for the purpose intended and shall be free from chipped finish, sharp edges, splits, dents, corrosion, or any other defect affecting appearance or serviceability.

Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, providing they fall within tolerances specified and all other requirements of this document are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable.

Recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

Unit of Issue – EA (Each)

**NSN: 7290-00-634-1996**

DUSTPAN: The dustpan shall consist of a pan attached to a handle, and shall be in accordance with the following characteristics:

Pan construction. The pan, consisting of a bottom with sides, back, and hood, shall be made from 0.0164-inch (0.42 mm) minimum thickness sheet steel. Seams shall be sealed to prevent dust leakage. There shall be a dirt-retaining ridge formed within the pan. The front edge of the pan shall be 10-1/2 to 12-1/2 inches (25.9 to 31.8 cm) wide. The side edges shall be minimum of 7-1/2 inches (19.1 cm) long. The clearance from hood top to pan bottom shall be a minimum of 2-1/2 inches (6.4 cm). The pan shall have a durable protective finish to prevent corrosion.

Handle construction. The handle shall be a minimum of 26 inches (66.1 cm) long, shall be made from durable, rigid material. The handle shall be securely fastened to the pan and shall not disengage from the pan during normal use. The handle shall have a durable protective finish. The handle shall have a means of attachment to a wall hook.

Performance. The front edge of the pan shall be in continuous contact with the floor when in use or when pressed to the floor with slight downward pressure applied to the handle. When the dustpan is lifted from the floor by the handle, the pan shall swing downward by gravity into a vertical position so that debris will move into the hooded area. The handle shall balance in the upright position when the pan is flat on the floor. The handle shall not interfere with the entrance of debris into the pan.

Unit of Issue – EA (Each)

**NSN: 7290-01-460-6663**

DUSTPAN: Shall be New York City Industries for the Blind, Inc. P/N NIB1998DUSTPAN, in accordance with the following characteristics:

Dustpan with 32-inch aluminum handle

Injection molded 12-inch by 11-inch plastic hopper

Hopper swings freely or snap-locks into place into upright position

Unit of Issue – EA (Each)

**NSN: 7920-00-044-9281**

CLOTH, CLEANING (LOW-LINT): Shall be in accordance with Commercial Item Description A-A-59323A, dated March 24, 2005. The cloth shall have the following characteristics:

Type II - For general use – requiring low-lint, highly absorbent wipers, but not clean room standards.

Unit of issue – BX (Two (2) each, five (5) pound bags of cloths per box).

**NSN 7920-00-045-2940**

PADS, SCOURING: Shall be a light duty non-woven pad composed of abrasive coated synthetic fibers. The pad shall be in accordance with the following:

Design. The pads shall be abrasive coated fibers, bonded together and cut to the size and shape specified. The pads shall have a uniform thickness, density, color, and abrasive content. These pads shall be for cleaning pots and pans and shall be suitable for use with food service equipment. The pads shall have good colorfastness to normal cleaning solutions. The pads shall be free of bacteriological effects and shall not contain any ingredient which may cause any harmful effects to personnel using the pad.

Size:

Width - 6 ( $\pm 1/4$ ) inches

Length - 9 ( $\pm 1/4$ ) inches

Thickness -  $3/8$  ( $-1/8$ ,  $+1/4$ ) inch

Materials.

Filament. The filament shall be good quality crimped, 100% nylon fibers, a polyester and nylon combination, or 100% polyester. The fiber shall have a staple length of 1 inch minimum. When polyester is used, the polyester content shall be not less than 10%. The major quantity of filaments shall be 15 denier, plus or minus 5 denier. Minor quantities from 10 to 25 percent of 5 to 10 denier filaments shall be acceptable.

Abrasive. The abrasive used shall be an aluminum oxide or silicon oxide abrasive, fine grade.

Adhesive. The adhesive used as a binder shall be a water insoluble non-thermoplastic resin. The adhesive can be modified with coloring dyes and inert fillers in amounts not to exceed 3 percent. The adhesive shall show negligible attack by cleaning solutions and boiling water when tested.

Workmanship. The scouring pads shall be of good quality workmanship, be uniform in size and shape with parallel edges and faces, and shall not have any ragged edges, tears, holes, debris, foreign matter, or any other defects that may affect their appearance, durability, or serviceability.



(Image is representational and intended only as a guide.)

Unit of Issue – BX (twenty (20) pads per box).

**NSN: 7920-00-061-0037**

**BRUSH, SCRUB:** The brushes shall be pot and pan scrub brushes conforming with the following characteristics:

At the option of the manufacturer, the handles shall be composed of wood or general purpose impact resistant polypropylene or styrene-butadiene. Wood handles shall be knot-free, clear, closed grained and straight grained. Polypropylene and styrene-butadiene handles shall be free from any imperfections.

Brush filler shall be polyamide filament. Polyamide filament shall have an average diameter of 0.022 inch (0.6 mm), without artificial color added or white.

Any metal components, such as staple wire, shall be inherently corrosion resistant, or plated to resist corrosion.

The brush shall be similar in appearance to Figure 1. Wood blocks shall be solid, plastic blocks may be molded with a depression in the back at the manufacturer's option. All edges of the blocks shall be rounded. Staples and filler shall be driven to the bottom of the tuft holes and the staples imbedded in the block of the bottom of the holes. The filler shall be firmly and permanently attached to the block so that when a tuft is grasped it is not removable when pulled by hand. The blocks shall be permanently marked with the manufacturer's name or recognized trademark.

The brush shall be constructed similar to Figure 1 and shall meet the dimensional requirements of Table I.

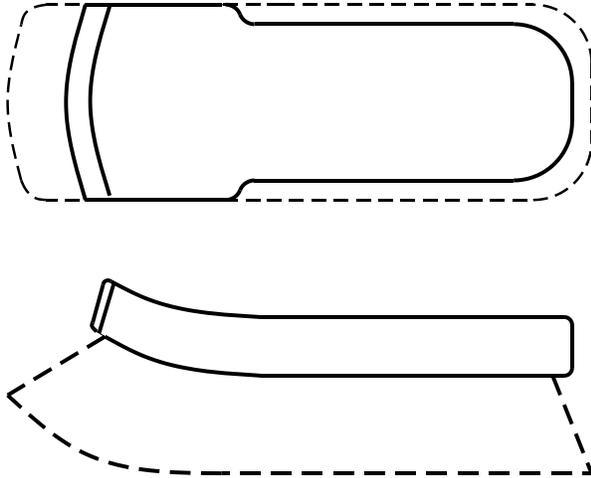


Figure 1

Table I

Characteristic	Dimension
Block	
Length, overall	6-1/8 +1/2, -1/8 inches
Width at widest point	2-1/2 ± 1/4 inches
Thickness	3/4 +1/4 -1/8 inch
Depth of tuft holes	1/4 inch minimum
Filler length clear of block	1-3/8 inch minimum

The finished brushes shall be free from splinters, surface defects, flashing, or other defects that may affect serviceability, durability or appearance. The brush filler material shall be evenly and uniformly trimmed to conform with the dimensional requirements.

Unit of Issue – EA (each)

**NSN: 7920-00-061-0038**

BRUSH, SCRUB: The brushes shall be general utility scrub brushes conforming with the following characteristics:

At the option of the manufacturer, the handles shall be composed of wood or general purpose impact resistant polypropylene or styrene-butadiene. Wood handles shall be knot-free, clear, closed grained and straight grained. Polypropylene and styrene-butadiene handles shall be free from any imperfections.

Brush filler shall be polyamide filament. Polyamide filament shall have an average diameter of 0.022 inch (0.6 mm), without artificial color added or white.

Any metal components, such as staple wire, shall be inherently corrosion resistant, or plated to resist corrosion.

The brush shall be similar in appearance to Figure 1. Wood blocks shall be solid, plastic blocks may be molded with a depression in the back at the manufacturer's option. All edges of the blocks shall be rounded. Staples and filler shall be driven to the bottom of the tuft holes and the staples imbedded in the block of the bottom of the holes. The filler shall be firmly and permanently attached to the block so that when a tuft is grasped it is not removable when pulled by hand. The blocks shall be permanently marked with the manufacturer's name or recognized trademark.

The brush shall be constructed similar to figure 1 and shall meet the dimensional requirements of table I.

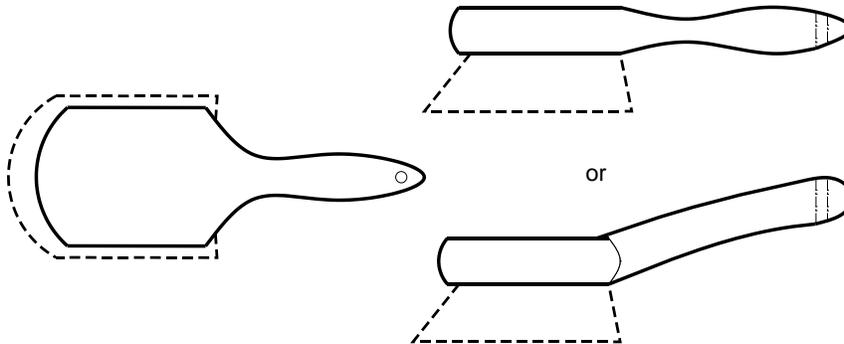


Figure 1

Table I	
Characteristic:	Dimension:
Block:	
Length, overall	8-1/2 inches minimum
Length of brush head	3-1/2 inches minimum
Width at widest	3 inches minimum
Thickness of brush head	3/4 inch minimum
Filler:	
Style B:	
Length clear of block	1-1/4 inch minimum
Style D:	
Length clear of block	2 inches minimum
Weight:	
Palmyra	2.5 ounce minimum
Polypropylene	1.75 ounce minimum

The finished brushes shall be free from splinters, surface defects, flashing, or other defects that may affect serviceability, durability or appearance. The brush filler material shall be evenly and uniformly trimmed to conform with the dimensional requirements.

Unit of issue: EA (each).

**NSN: 7920-00-141-5452**

HANDLE, WOOD: Shall be a 4-1/2 foot straight wood handle with tapered end with the following characteristics:

The handles shall be constructed of close-grained and straight wood. The handles shall not be fabricated from woods with a cross grain or spiral grain sloping more than 1 inch in 15 inches. The wood shall be dried, seasoned, and prepared prior to fabrication.

The diameter of the handle shall be 1-1/8 inches and shall be uniform throughout its length. The handle shall be straight and shall not have a crook, warp, or bow that causes an eccentricity of more than 3/8 inch when the handle is rolled on a flat surface. The handle ends opposite the attachment end shall be rounded.

The handle shall be tapered on one end; the dimensions shall be as specified by Figure 1. The taper shall be straight, uniform, and with a round cross-section.

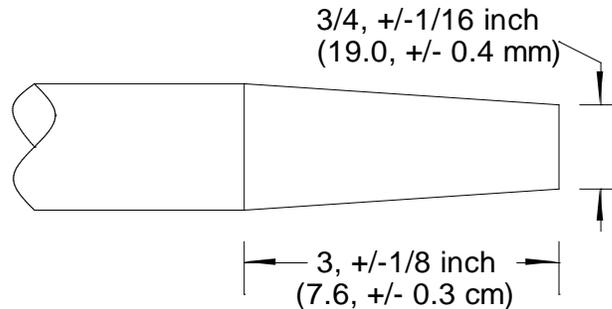


Figure 1

The handles, shall be sanded smooth and coated with a durable, protective, clear, and water resistant finish. The coating shall be continuous, smooth, uniform, and provide a glossy finish.

The handles shall be clean, straight, free from raised grain, smoothly finished, free of mold, and free of any defects that may affect serviceability, durability, or appearance.

Unit of issue: EA (each).

**NSN: 7920-00-141-5547**

MOPHEAD, WET: Shall be wet use, 24 ounce, cut ends, untaped  
8 ply, floor cleaning mopheads composed of cotton and synthetic yarns for the mopping of floors using water and commercial cleaners and disinfectants with the following characteristics:

The yarns of the mopheads shall be cotton or cotton blended with rayon, polyester, nylon, acrylic, or a combination of these fibers when tested in accordance with AATCC Test Method 20. The blended yarns shall be of an intimate fiber blend with a cotton content of not less than 30 percent by weight when tested in accordance with AATCC Test Method 20A. Alternate methods to verify these properties are permitted provided they are accurate and repeatable, and are in current industrial use. The yarns shall be free of trash and foreign material, shall have cut ends, and shall meet the requirements as specified in Table I when tested in accordance with ASTM D 2256, Option A, Condition 1. Yarn properties may be certified based on test reports from the manufacturer.

Table I, Physical requirements of yarns.

Characteristics	
Plies	8 (±2)
Yards/lb	88 minimum
Breaking strength	45 lbs minimum

The headbands shall be a woven tape with the edges woven or selvaged. The tape for the headband shall be a minimum of 1-1/4 inches wide, weighing 0.30 ounces per linear yard minimum.

The thread shall be cotton, nylon, or polyester. The cotton thread shall have a breaking strength of 2.1 pounds minimum when tested in accordance with ASTM D 204. The nylon or polyester thread shall have a breaking strength of 17 pounds minimum when tested in accordance with ASTM D 204.

The yarns of mopheads shall be laid side by side, with the ends cut to the finished length specified. The mophead shall have a headband at the center of the yarns.

The mopheads shall have a one-piece headband completely encircling the middle of the evenly distributed yarns with an overlap of 2 inches minimum. The centerline of the headband shall be within plus or minus 3/4 inch of the average midpoint (end to end) of the yarns. The finished mophead shall be 6 +/-1/2 inches wide at the headband prior to laundering. The headband shall be secured with a minimum of 4 rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester.

The mopheads shall conform to the requirements of Table II prior to laundering.

Table II. Physical Requirements.

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Weight, oz, each	24 minimum
Yarns/mophead,	130 minimum
Length of yarn, inches	37 minimum

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The finished mopheads shall be clean, free of trash, neat in construction and appearance. The mopheads shall have no defects which may affect appearance, durability or serviceability.

Unit of issue: EA (each).

**NSN: 7920-00-141-5548**

MOPHEAD, WET: Shall be wet use, 27 ounce, cut ends, untaped, 8 ply, floor cleaning mopheads composed of cotton and synthetic yarns for the mopping of floors using water and commercial cleaners and disinfectants with the following characteristics:

The yarns of the mopheads shall be cotton or cotton blended with rayon, polyester, nylon, acrylic, or a combination of these fibers when tested in accordance with AATCC Test Method 20. The blended yarns shall be of an intimate fiber blend with a cotton content of not less than 30 percent by weight when tested in accordance with AATCC Test Method 20A. Alternate methods to verify these properties are permitted provided they are accurate and repeatable, and are in current industrial use. The yarns shall be free of trash and foreign material, shall have cut ends, and shall meet the requirements as specified in Table I when tested in accordance with ASTM D 2256, Option A, Condition 1. Yarn properties may be certified based on test reports from the manufacturer.

Table I. Physical Requirements of Yarns.

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Plies	8 ( $\pm 2$ )
Yards/lb	88 minimum
Breaking strength	45 lbs minimum

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The headbands shall be a woven tape with the edges woven or selvaged. The tape for the headband shall be a minimum of 1-1/4 inches wide, weighing 0.30 ounces per linear yard minimum.

The thread shall be cotton, nylon, or polyester. The cotton thread shall have a breaking strength of 2.1 pounds minimum when tested in accordance with ASTM D 204. The nylon or polyester thread shall have a breaking strength of 17 pounds minimum when tested in accordance with ASTM D 204.

The yarns of mopheads shall be laid side by side, with the ends cut to the finished length specified. The mophead shall have a headband at the center of the yarns.

The mopheads shall have a one-piece headband completely encircling the middle of the evenly distributed yarns with an overlap of 2 inches minimum. The centerline of the headband shall be within plus or minus 3/4 inch of the average midpoint (end to end) of the yarns. The finished mophead shall be 6 +/-1/2 inches wide at the headband prior to laundering. The headband shall be secured with a minimum of 4 rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester.

The mopheads shall conform to the requirements of Table II prior to laundering.

Table II. Physical Requirements.

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Weight, oz, each	27 minimum
Yarns/mophead,	140 minimum
Length of yarn, inches	38 minimum

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The finished mopheads shall be clean, free of trash, neat in construction and appearance. The mopheads shall have no defects which may affect appearance, durability or serviceability.

Unit of issue: EA (each)

**NSN: 7920-00-141-5549**

MOPHEAD, WET: Shall be wet use, 12 ounce, cut ends, untaped 8 ply, floor cleaning mop heads composed of cotton and synthetic yarns for the mopping of floors using water and commercial cleaners and disinfectants with the following characteristics:

The yarns of the mop heads shall be cotton or cotton blended with rayon, polyester, nylon, acrylic, or a combination of these fibers when tested in accordance with AATCC Test Method 20. The blended yarns shall be of an intimate fiber blend with a cotton content of not less than 30 percent by weight when tested in accordance with AATCC Test Method 20A. Alternate methods to verify these properties are permitted provided they are accurate and repeatable, and are in current industrial use. The yarns shall be free of trash and foreign material, shall have cut ends, and shall meet the requirements as specified in Table I when tested in accordance with ASTM D 2256, Option A, Condition 1. Yarn properties may be certified based on test reports from the manufacturer.

Table I. Physical Requirements of Yarns.

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Characteristics:	
Plies	8 (±2)
Yards/lb	88 minimum
Breaking strength	45 lbs minimum

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The headbands shall be a woven tape with the edges woven or selvaged. The tape for the headband shall be a minimum of 1-1/4 inches wide, weighing 0.30 ounces per linear yard minimum.

The thread shall be cotton, nylon, or polyester. The cotton thread shall have a breaking strength of 2.1 pounds minimum when tested in accordance with ASTM D 204. The nylon or polyester thread shall have a breaking strength of 17 pounds minimum when tested in accordance with ASTM D 204.

The yarns of mopheads shall be laid side by side, with the ends cut to the finished length specified. The mophead shall have a headband at the center of the yarns.

The mopheads shall have a one-piece headband completely encircling the middle of the evenly distributed yarns with an overlap of 2 inches minimum. The centerline of the headband shall be within plus or minus 3/4 inch of the average midpoint (end to end) of the yarns. The finished mophead shall be 6 +/-1/2 inches wide at the headband prior to laundering. The headband shall be secured with a minimum of 4 rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester.

The mopheads shall conform to the requirements of Table II prior to laundering.

Table II. Physical Requirements.

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Weight, oz, each	12 minimum
Yarns/mophead,	90 minimum
Length of yarn, inches	26 minimum

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The finished mopheads shall be clean, free of trash, neat in construction and appearance. The mopheads shall have no defects which may affect appearance, durability or serviceability.

Copies of AATCC (Technical Manual of the American Association of Textile Chemists and Colorists) test methods are available from the American Association of Textile Chemists and Colorists, AATCC, 1 Davis Drive, P.O. Box 12215, Research Triangle Park, NC 27709, (919) 549-8141.

Copies of ASTM standards are available from ASTM, 1916 Race Street, Philadelphia, PA 19103.

Unit of issue – EA (each).

**NSN: 7920-00-141-5550**

MOPHEAD, WET: Shall be wet use, 20 ounce, cut ends, untaped 8 ply, floor cleaning mopheads composed of cotton and synthetic yarns for the mopping of floors using water and commercial cleaners and disinfectants with the following characteristics:

The yarns of the mopheads shall be cotton or cotton blended with rayon, polyester, nylon, acrylic, or a combination of these fibers when tested in accordance with AATCC Test Method 20. The blended yarns shall be of an intimate fiber blend with a cotton content of not less than 30 percent by weight when tested in accordance with AATCC Test Method 20A. Alternate methods to verify these properties are permitted provided they are accurate and repeatable, and are in current industrial use. The yarns shall be free of trash and foreign material, shall have cut ends, and shall meet the requirements as specified in Table I when tested in accordance with ASTM D 2256, Option A, Condition 1. Yarn properties may be certified based on test reports from the manufacturer.

Table I. Physical Requirements of Yarns.

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Characteristics	
Plies	8 (±2)
Yards/lb	88 minimum
Breaking strength	45 lbs minimum

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The headbands shall be a woven tape with the edges woven or selvaged. The tape for the headband shall be a minimum of 1-1/4 inches wide, weighing 0.30 ounces per linear yard minimum.

The thread shall be cotton, nylon, or polyester. The cotton thread shall have a breaking strength of 2.1 pounds minimum when tested in accordance with ASTM D 204. The nylon or polyester thread shall have a breaking strength of 17 pounds minimum when tested in accordance with ASTM D 204.

The yarns of mopheads shall be laid side by side, with the ends cut to the finished length specified. The mophead shall have a headband at the center of the yarns.

The mopheads shall have a one-piece headband completely encircling the middle of the evenly distributed yarns with an overlap of 2 inches minimum. The centerline of the headband shall be within plus or minus 3/4 inch of the average midpoint (end to end) of the yarns. The finished mophead shall be 6 +/-1/2 inches wide at the headband prior to laundering. The headband shall be secured with a minimum of 4 rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester.

The mopheads shall conform to the requirements of Table II prior to laundering.

Table II. Physical Requirements.

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Weight, oz, each	20 minimum
Yarns/mophead,	120 minimum
Length of yarn, inches	33 minimum

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The finished mopheads shall be clean, free of trash, neat in construction and appearance. The mopheads shall have no defects which may affect appearance, durability or serviceability.

Copies of AATCC (Technical Manual of the American Association of Textile Chemists and Colorists) test methods are available from the American Association of Textile Chemists and Colorists, AATCC, 1 Davis Drive, P.O. Box 12215, Research Triangle Park, NC 27709, (919) 549-8141.

Copies of ASTM standards are available from ASTM, 1916 Race Street, Philadelphia, PA 19103.

Unit of issue – EA (each).

**NSN: 7920-00-148-9666**

RAG, WIPING, COTTON AND COTTON-SYNTHETIC: Shall be mixed color, 2.0 TO 7.0 oz/yd<sup>2</sup>, cotton and cotton-synthetic blended wiping rags made from unused or reclaimed fabrics intended for use in wiping water, oil, and grease from machinery and for miscellaneous cleaning with the following characteristics:

Material. Wiping rags shall be all cotton or cotton-synthetic blends made from either clean mill ends and mill remnants or reclaimed fabrics from household articles and garments. Rags shall be soft, absorbent, and of either woven or knitted construction. Heavily napped fabrics, mesh fabrics constructed from hard twisted yarns, and starched or stiffened fabrics are not acceptable. Rags made from United States flags, national flags of foreign countries or rags made from fabrics obtained from laboratories, hospitals, clinics or any other source considered to be biohazard waste or remnants thereof are strictly prohibited

Size and measurement. Each wiping rag shall have an area of not less than 200 in<sup>2</sup> and shall be not less than 9.0 inches in width and not greater than 44.0 inches in length (see below).

Weight. Wiping rags shall not weigh less than 2.0 oz/yd<sup>2</sup> or greater than 7.0 oz/yd<sup>2</sup> when tested in accordance with the testing requirements below.

Absorbency rate. All rags shall absorb water and oil within 15.0 seconds when tested in accordance with the testing requirements below.

Moisture Content. Rags shall have a moisture content not greater than 7.5 percent when tested in accordance with the testing requirements below.

Washing and sanitization. All rags shall be thoroughly washed, rinsed, and sanitized (see below). The sanitizing process shall include subjecting the rags to temperatures of not less than 180°F (82°C) during washing cycles (see below). This processing shall be performed in the United States, its possessions, or Puerto Rico.

Defective Characteristics. Rags exhibiting any of the following characteristics shall be considered defective:

- (a) Rags containing stains which cover more than 10 percent of the area of the rag.
- (b) Rags containing an aggregate of more than 1 in<sup>2</sup> of hardened surface.
- (c) Rags containing dirt, dust, abrasives, or other clearly noticeable nonfibrous materials.
- (d) Rags made of mesh fabrics, such as lace, scrim, and netting, except that mesh will be acceptable as a border if not greater than 1.0 inch in depth on an otherwise acceptable rag.
- (e) Rags badly worn or tender so as to be unsuitable for the intended purpose (see below).
- (f) Tattered parts less than 3.0 inches in width and greater than 6.0 inches in length.
- (g) Edges frayed or raveled continuously or intermittently to a depth greater than 2.0 inches.
- (h) Rags made from unopened sleeves and pants, shorts, and drawer legs.
- (i) Any rags made from United States flags, national flags of foreign countries or biohazard waste, or remnants thereof.
- (j) Rags containing buttons, hooks, eyes, pins, or any other metallic or plastic fittings.
- (k) Rags containing elastic yarns amounting to more than 5 percent of the area of the rag.
- (l) Rags made from fabrics containing crotches, cuff hems, waistbands, pockets, collar reinforcements, weltings, and pipings greater than 0.5 inch in width, and unopened hems greater than 0.5 inch in width are unacceptable, except for rags made from sheets and pillow cases containing hems greater than 4.0 inches in width.

Put up. Any bale weighing less than 49.75 lb or measuring greater than 3.5 ft<sup>3</sup> shall be cause for rejection of the lot (see PACKAGING/PACKING below).

Workmanship: The wiping rags shall function for the purpose intended. No defects that affect serviceability shall be permitted.

Responsibility for inspection: Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the contractor may utilize his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

Certificate of compliance: When certificates of compliance for test requirements are submitted, the Government reserves the right to inspect such items to determine the validity of the certification. Certificates of compliance shall be accompanied by actual test results dated not more than one year prior to the date of the start of the contract or date of purchase order. The contractor shall provide the name and address of the laundry where the rags have been washed, rinsed, and sanitized if this process is not performed by the contractor.

Sampling: Unless otherwise specified, sampling shall be in accordance with American National Standards Institute (ANSI)/American Society for Quality Control (ASQC) Z1.4, "Sampling Procedures and Tables for Inspection by Attributes."

Lot formation: All bales of wiping rags of the same grade and color from the same manufacturer offered for delivery at one time shall be considered a lot for purposes of inspection.

Weight/volume verification: Select 10 bales from the lot and determine the minimum net weight per bale. The average minimum weight of the bales shall be 50 lb. Any single weight determination of less than 49.75 lb shall be cause for rejection of the lot (see above).

Select 5 of the 10 bales and determine the volume of each bale. Any bale measuring greater than 3.5 ft<sup>3</sup> (in volume) shall be cause for rejection of the lot.

Sampling for visual and dimensional examination: For the purpose of visual and dimensional inspection, the lot shall be defined as the number of rags submitted for inspection (this shall be the number of bales multiplied by 200, the approximate number of rags per bale). Sampling shall be in accordance with inspection level S-4, AQL 2.5 percent defective for major defects and 4.0 percent defective for minor defects. The sample unit shall be one rag. No more than five rags shall be selected from any one sample bale. Rags shall be selected at random and examined for the defects as listed in Table I. During this examination, if any rag is suspected of not containing cotton by visual examination or by feel, all rags in the sample are to be tested in accordance with the "Identification of cotton" paragraph below. If any rag fails the test in accordance with "Identification of cotton", it shall be classified as a major defect.

TABLE I. Examination for Visual and Dimensional Characteristics.

Defects:	Classification:	
	Major	Minor
<b>One or more rags made from United States flags, national flags of foreign countries, or is found to have been part of biohazard waste or remnants thereof shall cause the entire lot to be rejected.</b>		
a. Rags containing no cotton fiber (any amount of linen or flax fiber is acceptable)	X	
b. Dirt, dust, and abrasive material		X
c. Rags containing elastic yarns in excess of 5 percent of the area of the rag		X
d. Objectionable odor		X
e. Not of specified dimensions	X	
f. An aggregate of more than 1.0 in <sup>2</sup> of hardened surface	X	
g. Rags weighing less than or more than the amount specified	X	
h. Rags made of mesh fabrics, such as lace, scrim, and netting, except that mesh will be acceptable as a border not more than 1 inch in depth on an otherwise acceptable rag	X	
i. Rags made from starched or stiffened fabrics	X	
j. Rags made from heavy napped fabrics and fabrics woven with hard twisted yarns	X	
k. Stains which cover more than 10 percent of the area of the rag	X	

l. Badly worn or tendered as to be unsuited for the intended purpose	X	
m. Tattered parts less than 3.0 inches in width and greater than 6.0 inches in length		X
n. Edge frayed or raveled continuously or intermittently to a depth greater than 2.0 inches		X
o. Unopened sleeves, pants and drawer legs		X
p. Buttons, hooks, eyes, closed safety pins, or any other metallic or plastic fittings (one or more)		X
q. Rags that have not been thoroughly washed, rinsed, and sanitized	X	
r. Rags containing fiber content labels that declare 100 percent synthetic fiber	X	
s. <b>Foreign objects or dangerous materials such as nails, tacks, pins, opened safety pins, needles, glass, sharp edged metal items, etc.</b>	3X*	
t. Unopened hems greater than 0.5 inch in width		X
u. Rags containing crotches, cuff hems, waistbands, collar reinforcements, pockets, weltings, and pipings greater than 0.5 inch in width which are not sheets.	X	

\* Defect is equivalent to three major defects as signified by "3X"

Examination for tenderness: Wiping rags which are in question as to tenderness shall be examined in the following manner:

The rag shall be grasped on opposite edges so that it remains fully opened and flat. There shall be approximately 3 inches of material gathered in each hand. With the arms extended, the rag shall be subjected to a steady outward force. If the rag can be easily separated in this manner, it shall be considered tender.

Testing: Rags shall be tested for characteristics detailed below for each lot of material presented for delivery.

Absorption: The lot size shall be expressed in terms of quantity of rags in the lot, based on 200 rags per bale. The inspection level shall be S-3, AQL 6.5 percent defective. The sample unit shall be one rag. Each sample rag shall be supported so that the area being tested does not contact any surface. One drop of distilled water and one drop of light machine oil (ISO 32 grade lubricating oil), each 0.04 milliliter in volume and  $70 \pm 2^\circ\text{F}$ , shall be applied separately to applicable sample rags through a capillary tube. The drops shall fall freely onto the rag from a height of approximately 2 inches. The time, from initial contact of the drop with the rag until the drop is completely absorbed by the rag, shall be measured using a stopwatch. The time shall be noted to the nearest 0.1 second. Failure to completely absorb the drop in less than 15.0 seconds shall fail the sample.

Cotton Fiber Content: The lot size shall be expressed in terms of quantity of rags in the lot, based on 200 rags per bale. The sample unit shall be one rag. The sample rags shall be randomly selected using inspection level S-3, AQL 6.5 percent defective. Rags chosen for the absorbency test may be used. The rags shall be tested in accordance with paragraph to determine the presence of cotton fiber.

Identification of cotton: Oils, waxes, and dirt shall be removed from the specimen by washing in one of the following: ether, acetone, alcohol, or a 5-percent aqueous solution of sodium hydroxide. Dyes shall be removed using one of the following methods:

- (a) By oxidation, using nitric acid, hydrogen peroxide, or chlorine water;
- (b) By solution, using alcohol, acetic acid, hydrochloric acid, or pyridine; or,
- (c) By reduction using hydrosulphite, stannous chloride or hydrochloric acid with metallic zinc.

After dirt, oils, waxes, and dyes have been removed, place a dozen fibers from the sample onto a slide. The fibers shall be immersed in 3 or 4 drops of Herzberg's stain, covered with a slide (avoiding air bubbles), and allowed to stand 2 minutes with surplus stain drained off. Examine the prepared fibers with a microscope using transmitted light and 100 diameters magnification. Magnification up to 500 diameters may be used if a more detailed examination is necessary. The sample fibers shall be compared with a reference sample which has been treated in the same manner.

The color of cotton (*Gossypium* species) in the natural state, ranges from white to ecru. The staple length of commercial cottons varies from about 1.24 inch to slightly more than 2 inches. Microscopically, most fibers appear much like a twisted ribbon with rounded edges. They have no longitudinal or cross markings; the lumens vary from very narrow to over 2/3 of the diameter of the fiber. Diameters of the fibers vary from about 9 to 25 microns and average from 16-20 microns. Undyed cotton fibers are stained pink to dark red in color by Herzberg's stain.

As an alternative to the identification method described in paragraph above, ASTM Standard Test Method D 276 may be used to identify cotton fiber content.

**Moisture Content:** From the inspection sample for weight verification, randomly select 5 rags each from 5 bales (25 rags) with the moisture content to be determined immediately. If testing for moisture content is not possible immediately upon selection, the samples shall be placed in an air tight container or plastic bag and sealed to prevent moisture loss. To determine moisture content, place the rags in a tared air tight container and weigh. This weight minus the tare weight of the container is the original weight of the rags, symbolized below by "Wo". Remove the lid from the container and immediately place the container in an oven which has been preheated to a temperature of 221 - 230°F. After a minimum of 2 hours, remove the container and immediately reseal. Allow to cool. After the container has cooled, reweigh. This weight minus the tare weight of the container is the dry weight of the rags, symbolized below by "Wd". The percentage of moisture present in the samples shall be calculated using the following formula:

$$\text{Percent Moisture Content} = [(W_o - W_d)/W_o] \times 100$$

The moisture content of the samples shall be considered the moisture content of the entire lot. If the moisture content of the sample unit exceeds 7.5 percent, the entire lot shall be rejected.

**Cloth weight verification:** The lot size shall be in terms of the quantities of rags, based on 200 rags per bale. The inspection level shall be S-3, AQL 2.5 percent defective. The sample rags shall be measured for their mass per unit area as specified by ASTM D 3776. Standard conditioning of samples for weighing shall not be required except in cases of dispute. The results shall be reported to the nearest 0.1 oz/yd<sup>2</sup>. Any rag weighing less than 2.0 oz/yd<sup>2</sup> or greater than 7.0 oz/yd<sup>2</sup> shall fail.

**Examination of preparation for delivery:** A random sample of bales shall be selected from each lot for examination for conformance with the preservation, packaging, packing, labeling, and marking required in the contract or order. Samples shall be selected in accordance with inspection level S-2, AQL 6.5, expressed in terms of defects per hundred units. The sample unit shall be one bale.

**Mixed Colors:** The term "mixed colors" is intended to include rags of any color, including "white" rags, as acceptable.

**Sanitization:** The term "sanitized" means that the rags have been subjected to temperatures of not less than 180°F during washing cycles.

**Size and Measurements:**

The terms "width" and "length" are defined as follows:

The minimum "width" of a rag shall be the measurement between the two closest opposing points on the perimeter of the rag. The maximum "length" of a rag shall be the distance between the two most distant points along opposing edges of the rag. When rags are nearly rectangular, the longest edge shall be considered the "length".

Tatter. The term "tatter" (see above language and Table I) means a fabric part protruding from the edge of the body of the fabric.

Rinsing Agents: In the process of rinsing rags, use of a wetting agent (surfactant) to increase the absorbency of the rags is permissible provided the rags so treated meet all requirements of this commercial item description and are non-toxic.

Rags made from U.S. flags or other national flags are strictly prohibited. Rags composed of a blue background and white stars, or red and white alternating stripes, and appear to have been a part of a United States Flag are prohibited. Individual rags must contain cotton fiber.

Rags made from material obtained from hospitals, laboratories, research facilities, etc., which were considered biohazard waste, are prohibited.

Rags containing any kind of hypodermic syringe are prohibited. Discovery of a hypodermic syringe during inspection shall fail the lot.

Copies of military standards may be obtained from Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

Copies of ASTM standards may be obtained from ASTM, 1916 Race Street, Philadelphia, PA 19103.

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

**PREPARATION FOR DELIVERY:** The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of issue – BE (Fifty (50) pound bale).

**NSN: 7920-00-165-7195**

CLOTH, CLEANING (LOW-LINT): Shall be in accordance with Commercial Item Description (CID) A-A-59323A, dated March 24, 2005. The cloth shall have the following characteristics:

Type I - For clean room use-requiring ultra-clean, low lint wipers.

First Article testing is required in accordance with paragraph 3.6 of the referenced CID.

SPECIAL MARKING shall include:

- 1) Do not use with solvent having a flash point below 37.8 degrees C (100 degrees F).
- 2) Do not use for wiping large plastic surfaces such as aircraft radomes and canopies.

Unit of issue – BX (Two (2) each, five (5) pound bags of cloths per box).

**NSN: 7920-00-165-7277**

BRUSH, DUSTING, BENCH: Shall meet the following description:

The block shall be wood, smoothed and lacquered. The filler shall be tampico. The brush shall be a stiff bench and counter brush similar in appearance to Figure 1 and meeting the following dimensional requirements:

Overall block length	12" minimum
Block width	1-1/2" minimum
Block brush part length	7-1/2" minimum
Block handle length	4-1/2" minimum
Length of filler clear of block	2" +1/2, -0
Length of swept area	9"
Width of swept area	2-1/2"

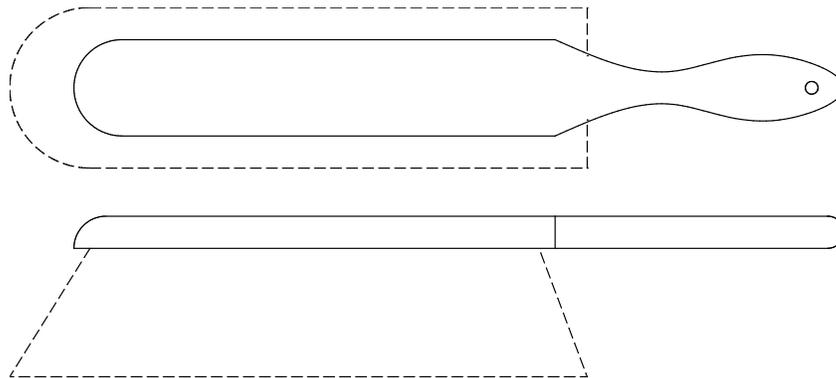


Figure 1

Packaging: Each brush shall be packaged in a paperboard or fiberboard box or sleeve.

Unit of Issue – EA (each).

**NSN: 7920-00-171-1148**

MOPHEAD, WET: Shall be wet use, 16 ounce, cut ends, untaped 8 ply, floor cleaning mopheads composed of cotton and synthetic yarns for the mopping of floors using water and commercial cleaners and disinfectants with the following characteristics:

The yarns of the mopheads shall be cotton or cotton blended with rayon, polyester, nylon, acrylic, or a combination of these fibers when tested in accordance with AATCC Test Method 20. The blended yarns shall be of an intimate fiber blend with a cotton content of not less than 30 percent by weight when tested in accordance with AATCC Test Method 20A. Alternate methods to verify these properties are permitted provided they are accurate and repeatable, and are in current industrial use. The yarns shall be free of trash and foreign material, shall have cut ends, and shall meet the requirements as specified in Table I when tested in accordance with ASTM D 2256, Option A, Condition 1. Yarn properties may be certified based on test reports from the manufacturer.

Table I. Physical Requirements of Yarns.

---

Characteristics:	
Plies	8 ( $\pm 2$ )
Yards/lb	88 minimum
Breaking strength	45 lbs minimum

---

The headbands shall be a woven tape with the edges woven or selvaged. The tape for the headband shall be a minimum of 1-1/4 inches wide, weighing 0.30 ounces per linear yard minimum.

The thread shall be cotton, nylon, or polyester. The cotton thread shall have a breaking strength of 2.1 pounds minimum when tested in accordance with ASTM D 204. The nylon or polyester thread shall have a breaking strength of 17 pounds minimum when tested in accordance with ASTM D 204.

The yarns of mopheads shall be laid side by side, with the ends cut to the finished length specified. The mophead shall have a headband at the center of the yarns.

The mopheads shall have a one-piece headband completely encircling the middle of the evenly distributed yarns with an overlap of 2 inches minimum. The centerline of the headband shall be within plus or minus 3/4 inch of the average midpoint (end to end) of the yarns. The finished mophead shall be 6 +/- 1/2 inches wide at the headband prior to laundering. The headband shall be secured with a minimum of 4 rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester.

The mopheads shall conform to the requirements of Table II prior to laundering.

Table II. Physical Requirements.

---

Weight, oz, each	16 minimum
Yarns/mophead,	100 minimum
Length of yarn, inches	31 minimum

---

The finished mopheads shall be clean, free of trash, neat in construction and appearance. The mopheads shall have no defects which may affect appearance, durability or serviceability.

Copies of AATCC (Technical Manual of the American Association of Textile Chemists and Colorists) test methods are available from the American Association of Textile Chemists and Colorists, AATCC, 1 Davis Drive, P.O. Box 12215, Research Triangle Park, NC 27709, (919) 549-8141.

Copies of ASTM standards are available from ASTM, 1916 Race Street, Philadelphia, PA 19103.

Unit of issue – EA (each).

**NSN: 7920-00-178-8315**

**BRUSH, DUSTING:** Shall be a wood or plastic counter dusting brush with horsehair; or combination of horsehair and polystyrene; or tampico filler with the following characteristics:

The filler shall be either 100% horsetail; or a combination of 50% horsehair and 50% polystyrene; or tampico bristles. The horsetail hair shall be extra stiff, which has been cleaned and sterilized prior to use.

The blocks shall be one-piece wood or plastic. Wood used for blocks and handles shall be close-grained and straight-grained hardwood with no cracks, checks, splinters, or other defects which may affect appearance or serviceability. The finished wood blocks shall be sanded smooth. Plastic blocks shall be a modified general purpose polypropylene material, and shall be dense, uniform, and free from voids or channels.

When used, drawing wire shall be 0.015 inch minimum diameter brass or copper alloy wire. In the finished product, the wire ends shall be concealed within the brush head.

When used, staple wire shall be a commercial quality wire normally used for the purpose intended.

The brushes shall meet the requirements of Table 1 and shall be configured similar to Figure 1. The tufts shall be secured within each tuft hole in such a manner that the tufts will withstand a 4 pound pull for one minute and not loosen, break, or pull out of the block. The brush block shall be permanently marked with the manufacturer's name or recognized trademark.

Table 1.

Characteristic:	
Block, inches minimum	
Length, overall	13
Length, brush part	8
Width, brush part	1-3/4
Thickness, brush part	13/16
Filler, inches minimum:	
Length clear of block	2-3/8 <sup>1</sup>
Spread	4
Filler weight, ounces minimum	3-1/2
Holes, number, minimum	85 (in 5 rows)

<sup>1</sup> Within 2 inches of the nose, the filler may be 1/4 inch less than specified.

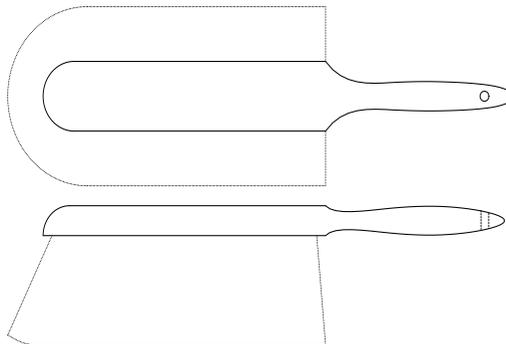


Figure 1

Unit of issue – EA (each).

**NSN: 7920-00-205-0425**

MOPHEAD, WET: Shall be wet use, 20 ounce, cut ends, untaped 4 ply, floor cleaning mopheads composed of cotton and synthetic yarns for the mopping of floors using water and commercial cleaners and disinfectants with the following characteristics:

The yarns of the mopheads shall be cotton or cotton blended with rayon, polyester, nylon, acrylic, or a combination of these fibers when tested in accordance with AATCC Test Method 20. The blended yarns shall be of an intimate fiber blend with a cotton content of not less than 30 percent by weight when tested in accordance with AATCC Test Method 20A. Alternate methods to verify these properties are permitted provided they are accurate and repeatable, and are in current industrial use. The yarns shall be free of trash and foreign material, shall have cut ends, and shall meet the requirements as specified in Table I

when tested in accordance with ASTM D 2256, Option A, Condition 1. Yarn properties may be certified based on test reports from the manufacturer.

Table I. Physical Requirements of Yarns.

---

Characteristics:	
Plies	4 minimum
Yards/lb	225 minimum
Breaking strength	18 lbs minimum

---

The headbands shall be a woven tape with the edges woven or selvaged. The tape for the headband shall be a minimum of 1-1/4 inches wide, weighing 0.30 ounces per linear yard minimum. The tailband shall be a minimum of 1/2 inches wide.

The thread shall be cotton, nylon, or polyester. The cotton thread shall have a breaking strength of 2.1 pounds minimum when tested in accordance with ASTM D 204. The nylon or polyester thread shall have a breaking strength of 17 pounds minimum when tested in accordance with ASTM D 204.

The yarns of mopheads shall be laid side by side, with the ends cut to the finished length specified. The mophead shall have a headband at the center of the yarns.

The mopheads shall have a one-piece headband completely encircling the middle of the evenly distributed yarns with an overlap of 2 inches minimum. The centerline of the headband shall be within plus or minus 3/4 inch of the average midpoint (end to end) of the yarns. The finished mophead shall be 6 +/-1/2 inches wide at the headband prior to laundering. The headband shall be secured with a minimum of 4 rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester.

The mopheads shall conform to the requirements of Table II prior to laundering.

Table II, Physical Requirements.

---

Weight, oz, each	20 minimum
Yarns/mophead,	240 minimum
Length of yarn, inches	35 minimum

---

For the purpose of the dimensional stability test below, a lot shall be defined as all mopheads manufactured from the same manufacturing lot of yarn. A signed test report, or Certificate of Conformance, which includes the actual test results from the yarn manufacturer for each lot of yarn, may be used in lieu of the performance of this test.

From each manufacturing lot of yarn, five (5) mopheads shall be individually weighed and the overall lengths measured. The mopheads shall be washed and dried 5 times using the cotton settings on a domestic washer and a domestic dryer, with the wash water and exhaust temperature at 140°F. After completion of the fifth drying cycle, determine the weight and length and calculate the weight loss and shrinkage as a percentage of their starting values. The average weight loss and shrinkage shall not exceed 15% of the original values.

The finished mopheads shall be clean, free of trash, neat in construction and appearance. The mopheads shall have no defects which may affect appearance, durability or serviceability.

Copies of AATCC (Technical Manual of the American Association of Textile Chemists and Colorists) test methods are available from the American Association of Textile Chemists and Colorists, AATCC, 1 Davis Drive, P.O. Box 12215, Research Triangle Park, NC 27709, (919) 549-8141.

Copies of ASTM standards are available from ASTM, 1916 Race Street, Philadelphia, PA 19103.

Unit of issue – EA (each).

**NSN: 7920-00-205-0426**

MOPHEAD, WET: Shall be wet use, 32 ounce, cut ends, untaped 4 ply, floor cleaning mopheads composed of cotton and synthetic yarns for the mopping of floors using water and commercial cleaners and disinfectants with the following characteristics:

The yarns of the mopheads shall be cotton or cotton blended with rayon, polyester, nylon, acrylic, or a combination of these fibers when tested in accordance with AATCC Test Method 20. The blended yarns shall be of an intimate fiber blend with a cotton content of not less than 30 percent by weight when tested in accordance with AATCC Test Method 20A. Alternate methods to verify these properties are permitted provided they are accurate and repeatable, and are in current industrial use. The yarns shall be free of trash and foreign material, shall have cut ends, and shall meet the requirements as specified in Table I when tested in accordance with ASTM D 2256, Option A, Condition 1. Yarn properties may be certified based on test reports from the manufacturer.

Table I. Physical Requirements of Yarns.

---

Characteristics	
Plies	4 minimum
Yards/lb	225 minimum
Breaking strength	18 lbs minimum

---

The headbands shall be a woven tape with the edges woven or selvaged. The tape for the headband shall be a minimum of 1-1/4 inches wide, weighing 0.30 ounces per linear yard minimum. The tailband shall be a minimum of 1/2 inches wide.

The thread shall be cotton, nylon, or polyester. The cotton thread shall have a breaking strength of 2.1 pounds minimum when tested in accordance with ASTM D 204. The nylon or polyester thread shall have a breaking strength of 17 pounds minimum when tested in accordance with ASTM D 204.

The yarns of mopheads shall be laid side by side, with the ends cut to the finished length specified. The mophead shall have a headband at the center of the yarns.

The mopheads shall have a one-piece headband completely encircling the middle of the evenly distributed yarns with an overlap of 2 inches minimum. The centerline of the headband shall be within plus or minus 3/4 inch of the average midpoint (end to end) of the yarns. The finished mophead shall be 6 ± 1/2 inches wide at the headband prior to laundering. The headband shall be secured with a minimum of 4 rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester.

The mopheads shall conform to the requirements of Table II prior to laundering.

Table II. Physical Requirements.

---

Weight, oz, each	32 minimum
Yarns/mophead,	335 minimum
Length of yarn, inches	40 minimum

---

For the purpose of the dimensional stability test below, a lot shall be defined as all mopheads manufactured from the same manufacturing lot of yarn. A signed test report, or Certificate of

Conformance, which includes the actual test results from the yarn manufacturer for each lot of yarn, may be used in lieu of the performance of this test.

From each manufacturing lot of yarn, five (5) mopheads shall be individually weighed and the overall lengths measured. The mopheads shall be washed and dried 5 times using the cotton settings on a domestic washer and a domestic dryer, with the wash water and exhaust temperature at 140°F. After completion of the fifth drying cycle, determine the weight and length and calculate the weight loss and shrinkage as a percentage of their starting values. The average weight loss and shrinkage shall not exceed 15% of the original values.

The finished mopheads shall be clean, free of trash, neat in construction and appearance. The mopheads shall have no defects which may affect appearance, durability or serviceability.

Copies of AATCC (Technical Manual of the American Association of Textile Chemists and Colorists) test methods are available from the American Association of Textile Chemists and Colorists, AATCC, 1 Davis Drive, P.O. Box 12215, Research Triangle Park, NC 27709, (919) 549-8141.

Copies of ASTM standards are available from ASTM, 1916 Race Street, Philadelphia, PA 19103.

Unit of issue – EA (each).

**NSN: 7920-00-205-0484**

**MOP, DUSTING, COTTON, SLIP-ON (WITH HANDLE):** Shall be a universal swivel dry cotton dust mop, including 53 inch handle, swivel, tapered 22-1/4 inch frame, and mophead with a 9-1/2 inch X 30 inch sweep. The dust mops are intended to be used to remove dust from smooth floors with the following characteristics:

The handle shall be a close-grained hardwood, or softwood of Douglas Fir or southern yellow pine, with a moisture content of not more than 12 percent. The handle shall be 53 ±1/2 inches in length and 1 ±1/8 inch in diameter. The handle shall be free from warp, decay, knots, checks, shakes, splits, slivers, bark pocket, and larva channels or pockets. The grain shall not slope more than 1 inch in 15. The handle shall be smoothly sanded and completely sealed with a clear lacquer, varnish, or acrylic sealant.

The frames shall be formed from steel wire of 0.158 inch minimum in diameter. The frame shall be similar to the designs depicted by figure 1. Bracing plates or crossmembers are optional and the method of attachment of the swivel is optional. The frame shall be entirely composed of inherently corrosion resistant steel or shall be plated to resist corrosion. The finished frame shall show no evidence of corrosion.

The frames shall have tapered ends similar to figure 1. The frames shall be 3-3/8 ±1/8 inches wide and 22-1/4 inches ±1/4 inch long.



Figure 1

The universal swivel shall be composed of steel that is either inherently corrosion resistant or plated to resist corrosion. The design shall allow full swivel action and "steering" of the mophead but shall not allow free rotation of the frame. A ball and socket design is not permitted. Plastic components are permitted in non-structural members.

If the frame is detachable from the handle the assembly shall be made by fasteners that do not require tools. A removable "clip-on" type joint is acceptable.

The handles and frames shall be of high quality workmanship equal or better to standard commercial practice, and shall not have any defects which may affect appearance, durability or serviceability. The handle shall be straight, smooth, corrosion free (as applicable), without blemishes or defects. The swivel shall move smoothly and easily, and shall be corrosion free. The frame shall be straight, with neat connections and shall be corrosion free.

The mophead base cloth shall be any fabric meeting the requirements of Table I. The cloth shall be natural or bleached and shall be dye free. The finished cloth shall be free of holes and other defects that affect appearance or may affect serviceability.

Table I, Cloth Physical Characteristics

Characteristic	Value	Test Method
Breaking strength		
Warp	105 lbs, minimum	ASTM D 5034
Fill	75 lbs, minimum	ASTM D 5034
Shrinkage	3% maximum	AATCC 150 or 135

The mophead yarns shall be composed of cotton or cotton synthetic blend. If the yarn is a blend, it shall contain no less than 80% cotton. The mophead yarns shall meet the requirements of Table II. The yarns shall be natural or bleached and shall be dye free.

Table II, Yarn Physical Characteristics

Characteristic	Value	Test Method
Yards per pound	500, $\pm$ 50	ASTM D 204
Plies of yarn	4	Visual
Twists per inch	2.25, minimum	Visual
Breaking strength	10 lbs, minimum	ASTM D 2256

The thread used shall have a minimum breaking strength of 4 lbs, the color shall be optional.

The material used for binding shall meet the same requirements as the base cloth.

Tape for the ties shall be of tubular braid material. The tape shall be a minimum of 1/4 inch wide. Each tape shall have a minimum of 8 inches free after assembly to the mophead. The tape shall be natural or bleached color and shall be dye free.

The mophead shall be constructed from two pieces of base cloth to which the yarns are attached. One base cloth piece shall form the bottom and the other piece shall form the top and have an opening for the frame, the two pieces shall be sewn together at the perimeter. The bottom shall have two (minimum) parallel rows of yarn sewn to it, the use of strips of self material is optional. Yarn shall also be sewn around the outer perimeter of the assembly. All of the yarns shall be sewn to the cloth in a looped-end construction method, with no cut ends of yarn free. The loops of yarns shall extend a minimum of 2 inches from the cloth. The top piece shall have a round centered opening with a slit extending from the center opening to one end. All exposed edges of the frame opening shall be bound with the binding specified, the outer edges of the cloth shall be serge stitched or bound with binding tape.

The mopheads shall have a pair of tie tapes adjacent to the center opening and another pair midway along the opening for the frame. The mopheads shall be configured to accept tapered end frames. The mopheads shall be sized to permit frames to be easily inserted with allowance for 3% shrinkage.

The mopheads shall weigh 10 pounds per dozen minimum when 12 randomly chosen mops are weighed together:

The mopheads shall be complete and functional and shall be free of any defects that may affect appearance, durability or serviceability. All mophead yarn loops shall be securely caught by the sewing.

Unit of issue – EA (each).

**NSN: 7920-00-205-0488**

MOPHEAD, DUSTING, COTTON: Shall be a mophead with an overall sweep of 9-1/2 inch X 30 inch for use with a 22-1/4 inch X 3-3/8 inch frame. The dust mops are intended to be used to remove dust from smooth floors with the following characteristics:

The mophead base cloth shall be any fabric meeting the requirements of Table I. The cloth shall be natural or bleached and shall be dye free. The finished cloth shall be free of holes and other defects that affect appearance or may affect serviceability.

Table I, Cloth Physical Characteristics

Characteristic	Value	Test Method
Breaking strength		
Warp	105 lbs minimum	ASTM D 5034
Fill	75 lbs minimum	ASTM D 5034
Shrinkage	3% maximum	AATCC 150 or 135

The mophead yarns shall be composed of cotton or cotton synthetic blend. If the yarn is a blend, it shall contain no less than 80% cotton. The mophead yarns shall meet the requirements of Table II. The yarns shall be natural or bleached and shall be dye free.

Table II, Yarn Physical Characteristics

Characteristic	Value	Test Method
Yards per pound	500, $\pm$ 50	ASTM D 204
Plies of yarn	4	Visual
Twists per inch	2.25, minimum	Visual
Breaking strength	10 lbs., minimum	ASTM D 2256

The thread used shall have a minimum breaking strength of 4 lbs, the color shall be optional.

The material used for binding shall meet the same requirements as the base cloth.

Tape for the ties shall be of tubular braid material. The tape shall be a minimum of 1/4 inch wide. Each tape shall have a minimum of 8 inches free after assembly to the mophead. The tape shall be natural or bleached color and shall be dye free.

The mophead shall be constructed from two pieces of base cloth to which the yarns are attached. One base cloth piece shall form the bottom and the other piece shall form the top and have an opening for the frame, the two pieces shall be sewn together at the perimeter. The bottom shall have two (minimum) parallel rows of yarn sewn to it, the use of strips of self material is optional. Yarn shall also be sewn around the outer perimeter of the assembly. All of the yarns shall be sewn to the cloth in a looped-end construction method, with no cut ends of yarn free. The loops of yarns shall extend a minimum of 2 inches from the cloth. The top piece shall have a round centered opening with a slit extending from the center opening to one end. All exposed edges of the frame opening shall be bound with the binding specified, the outer edges of the cloth shall be serge stitched or bound with binding tape.

The mopheads shall have a pair of tie tapes adjacent to the center opening. The mopheads shall be configured to accept tapered end frames. The mopheads shall be sized to permit frames to be easily inserted with allowance for 3% shrinkage.

The mopheads shall weigh 10 pounds per dozen minimum when 12 randomly chosen mops are weighed together:

The mopheads shall be complete and functional and shall be free of any defects that may affect appearance, durability or serviceability. All mophead yarn loops shall be securely caught by the sewing.

Unit of issue: EA (each).

**NSN: 7920-00-205-1168**

HANDLE, MOP, WET: Shall be a 54 inch long wood mop handle and screw type attachment fixture to hold wet-cleaning string type mopheads with the following characteristics:

The wood for the handles shall be a close-grained and straight-grained, and shall be wood normally used for mop handles. The handles shall be free from cup, knots, heart center, rot, dote, brash, cross grain or spiral grain sloping more than 1 inch in 15 inches, or any other defect that may affect appearance or serviceability. Wood handles shall have a round cross-section with a minimum diameter of 1-1/8 inch, and be rounded on the hand end. The length shall be as specified with a tolerance of plus or minus 1/2 inch. The handle shall be sanded smooth and coated with a clear sealant for a smooth, uniform and glossy finish.

All metal components except the handles shall be made of corrosion resistant materials or shall be plated to resist corrosion. When inspected, any evidence of corrosion shall fail the lot.

The screw type mop holder shall hold the mophead between the head and bail by means of a wingnut on a screw pin. Figure 1 depicts the general configuration of this mophead.

When the head is fully open for insertion of a mophead there shall be a minimum space of 1-1/4 inches and shall have an inside width of 6-1/2 inches, plus or minus 1/4 inch. The steel wire from which the bails are formed shall be a minimum of 0.23 inch in diameter. The attachment of the fixture to the ferrule and the ferrule to the handle shall be in such a manner that the head will not loosen or come apart from the handle without purposeful disassembly. Permanent attachment, such as welding or riveting is permitted.

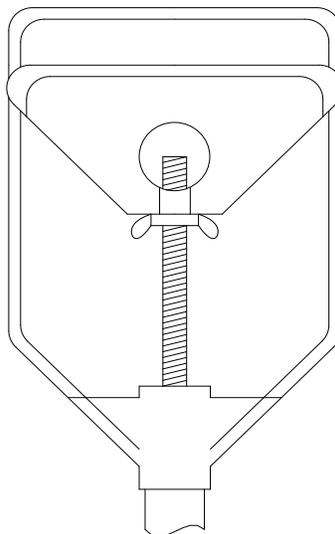


Figure 1

The finished mop handle assemblies shall be free from defects affecting appearance, serviceability or durability. The handles shall be free from warps, burrs, splinters, or rough spots. The heads and bails shall

be free from burrs or sharp edges and shall open and close smoothly without damage, and shall not injure the operator.

Unit of issue – EA (each).

**NSN: 7920-00-205-1170**

HANDLE, MOP, WET: Shall be a 60 inch long wood mop handle and spring-lever type attachment fixture to hold wet-cleaning string type mopheads with the following characteristics:

The wood for the handles shall be a close-grained and straight-grained, and shall be wood normally used for mop handles. The handles shall be free from cup, knots, heart center, rot, dote, brash, cross grain or spiral grain sloping more than 1 inch in 15 inches, or any other defect that may affect appearance or serviceability. Wood handles shall have a round cross-section with a minimum diameter of 1-1/8 inch, and be rounded on the hand end. The length shall be as specified with a tolerance of plus or minus 1/2 inch. The handle shall be sanded smooth and coated with a clear sealant for a smooth, uniform and glossy finish.

All metal components shall be made of corrosion resistant materials or shall be plated to resist corrosion. When inspected, any evidence of corrosion shall fail the lot.

The spring-lever type mop holder shall hold a mophead between the head and bail by means of a spring and lever. Figure 1 depicts the general configuration of this mophead.

When the heads are fully open for insertion of a mophead there shall be a minimum space of 1-1/4 inches. The heads shall have an inside width of 6-1/2 inches, plus or minus 1/4 inch. The steel wire from which the bails are formed shall be a minimum of 0.162 inch in diameter. The attachment of the fixtures to the ferrule and the ferrule to the handle shall be in such a manner that the head will not loosen or come apart from the handle without purposeful disassembly. Permanent attachment, such as welding or riveting is permitted.

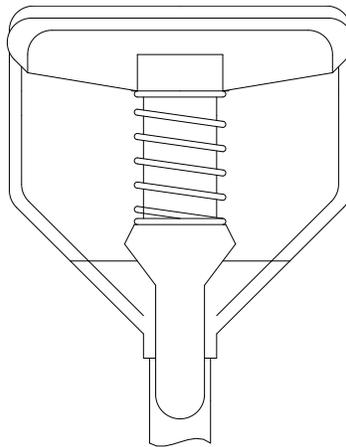


Figure 1

The finished mop handle assemblies shall be free from defects affecting appearance, serviceability or durability. The handles shall be free from warps, burrs, slivers, or rough spots. The heads and bails shall be free from burrs or sharp edges and shall open and close smoothly without damage, and shall not injure the operator.

Unit of issue: EA (each)

**NSN: 7920-00-205-1711**

RAG, WIPING (COTTON AND COTTON-SYNTHETIC: Shall be mixed color, 3.0 TO 10.0 oz/yd<sup>2</sup>, cotton and cotton-synthetic blended wiping rags made from unused or reclaimed fabrics intended for use in wiping water, oil, and grease from machinery and for miscellaneous cleaning with the following characteristics:

Size and measurement: Each wiping rag shall have an area of not less than 200 in<sup>2</sup> and shall be not less than 9.0 inches in width and not greater than 44.0 inches in length (see below).

Weight: Wiping rags shall not weigh less than 3.0 oz/yd<sup>2</sup> or greater than 10.0 oz/yd<sup>2</sup>.

Material: Wiping rags shall be all cotton or cotton-synthetic blends made from either clean mill ends and mill remnants or reclaimed fabrics from household articles and garments. Rags shall be soft, absorbent, and of either woven or knitted construction. Heavily napped fabrics, mesh fabrics constructed from hard twisted yarns, and starched or stiffened fabrics are not acceptable. Rags made from United States flags, national flags of foreign countries or rags made from fabrics obtained from laboratories, hospitals, clinics or any other source considered to be biohazard waste or remnants thereof are strictly prohibited.

Absorbency rate: All rags shall absorb water and oil within 15.0 seconds when tested in accordance with the testing requirements below.

Moisture Content: Rags shall have a moisture content not greater than 7.5 percent when tested in accordance with the testing requirements below.

Washing and sanitization: All rags shall be thoroughly washed, rinsed, and sanitized (see below). The sanitizing process shall include subjecting the rags to temperatures of not less than 180°F (82°C) during washing cycles (see below). This processing shall be performed in the United States, its possessions, or Puerto Rico.

Defective Characteristics: Rags exhibiting any of the following characteristics shall be considered defective:

- (a) Rags containing stains which cover more than 10 percent of the area of the rag.
- (b) Rags containing an aggregate of more than 1 in<sup>2</sup> of hardened surface.
- (c) Rags containing dirt, dust, abrasives, or other clearly noticeable nonfibrous materials.
- (d) Rags made of mesh fabrics, such as lace, scrim, and netting, except that mesh will be acceptable as a border if not greater than 1.0 inch in depth on an otherwise acceptable rag.
- (e) Rags badly worn or tender so as to be unsuitable for the intended purpose (see below).
- (f) Tattered parts less than 3.0 inches in width and greater than 6.0 inches in length.
- (g) Edges frayed or raveled continuously or intermittently to a depth greater than 2.0 inches.
- (h) Rags made from unopened sleeves and pants, shorts, and drawer legs.
- (i) Any rags made from United States flags, national flags of foreign countries or biohazard waste, or remnants thereof.
- (j) Rags containing buttons, hooks, eyes, pins, or any other metallic or plastic fittings.
- (k) Rags containing elastic yarns amounting to more than 5 percent of the area of the rag.
- (l) Rags weighing greater than 8 oz/yd<sup>2</sup> and made from pants, overalls, jackets, coats, and skirts, having pockets, reinforcements (including collar, cuffs, buttonholes, and waistband reinforcements), crotches, welting, piping (such as used on slip covers, etc.), unopened hems greater than 1.0 inch in width, and patches with an area greater than 4 in<sup>2</sup> are unacceptable.

Put up. Any bale weighing less than 49.75 lb or measuring greater than 3.5 ft<sup>3</sup> shall be cause for rejection of the lot (see PACKAGING/PACKING below).

Workmanship: The wiping rags shall function for the purpose intended. No defects that affect serviceability shall be permitted.

Responsibility for inspection: Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the contractor may utilize his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

Certificate of compliance When certificates of compliance for test requirements are submitted, the Government reserves the right to inspect such items to determine the validity of the certification. Certificates of compliance shall be accompanied by actual test results dated not more than one year prior to the date of the start of the contract or date of purchase order. The contractor shall provide the name and address of the laundry where the rags have been washed, rinsed, and sanitized if this process is not performed by the contractor.

Sampling: Unless otherwise specified, sampling shall be in accordance with ANSI/ASQ Z 1.4 - Sampling Procedures and Tables for Inspection by Attributes.

Lot formation: All bales of wiping rags of the same grade and color from the same manufacturer offered for delivery at one time shall be considered a lot for purposes of inspection.

Weight/volume verification: Select 10 bales from the lot and determine the minimum net weight per bale. The average minimum weight of the bales shall be 50 lb. Any single weight determination of less than 49.75 lb shall be cause for rejection of the lot (see above).

Select 5 of the 10 bales and determine the volume of each bale. Any bale measuring greater than 3.5 ft<sup>3</sup> (in volume) shall be cause for rejection of the lot.

Sampling for visual and dimensional examination: For the purpose of visual and dimensional inspection, the lot shall be defined as the number of rags submitted for inspection (this shall be the number of bales multiplied by 200, the approximate number of rags per bale). Sampling shall be in accordance with inspection level S-4, AQL 2.5 percent defective for major defects and 4.0 percent defective for minor defects. The sample unit shall be one rag. No more than five rags shall be selected from any one sample bale. Rags shall be selected at random and examined for the defects as listed in Table I. During this examination, if any rag is suspected of not containing cotton by visual examination or by feel, all rags in the sample are to be tested in accordance with the "Identification of cotton" paragraph below. If any rag fails the test in accordance with "Identification of cotton", it shall be classified as a major defect.

TABLE I. Examination for Visual and Dimensional Characteristics.

Defects	Classification	
	Major	Minor
<b>One or more rags made from United States flags, national flags of foreign countries, or is found to have been part of biohazard waste or remnants thereof shall cause the entire lot to be rejected.</b>		
a. Rags containing no cotton fiber (any amount of linen or flax fiber is acceptable)	X	
b. Dirt, dust, and abrasive material		X
c. Rags containing elastic yarns in excess of 5 percent of the area of the rag		X
d. Objectionable odor		X
e. Not of specified dimensions	X	
f. An aggregate of more than 1.0 in <sup>2</sup> of hardened surface	X	

g. Rags weighing less than or more than the amount specified	X	
h. Rags made of mesh fabrics, such as lace, scrim, and netting, except that mesh will be acceptable as a border not more than 1 inch in depth on an otherwise acceptable rag	X	
i. Rags made from starched or stiffened fabrics	X	
j. Rags made from heavy napped fabrics and fabrics woven with hard twisted yarns	X	
k. Stains which cover more than 10 percent of the area of the rag	X	
l. Badly worn or tendered as to be unsuited for the intended purpose	X	
m. Tattered parts less than 3.0 inches in width and greater than 6.0 inches in length		X
n. Edge frayed or raveled continuously or intermittently to a depth greater than 2.0 inches		X
o. Unopened sleeves, pants and drawer legs		X
p. Buttons, hooks, eyes, closed safety pins, or any other metallic or plastic fittings (one or more)		X
q. Rags that have not been thoroughly washed, rinsed, and sanitized	X	
r. Rags containing fiber content labels that declare 100 percent synthetic fiber	X	
s. <b>Foreign objects or dangerous materials such as nails, tacks, pins, opened safety pins, needles, glass, sharp edged metal items, etc.</b>	3X*	
t. Rags weighing greater than 8 oz/yd <sup>2</sup> and made from pants, overalls, jackets, coats, and skirts, having pockets, reinforcements (including collar, cuffs, buttonholes, and waistband reinforcements), crotches, welting, piping (such as used on slip covers, etc.), unopened hems greater than 1.0 inch in width, and patches with an area over 4 in <sup>2</sup>	X	

\* Defect is equivalent to three major defects as signified by "3X"

Examination for tenderness: Wiping rags which are in question as to tenderness shall be examined in the following manner:

The rag shall be grasped on opposite edges so that it remains fully opened and flat. There shall be approximately 3 inches of material gathered in each hand. With the arms extended, the rag shall be subjected to a steady outward force. If the rag can be easily separated in this manner, it shall be considered tender.

Testing: Rags shall be tested for characteristics detailed below for each lot of material presented for delivery.

Absorption: The lot size shall be expressed in terms of quantity of rags in the lot, based on 200 rags per bale. The inspection level shall be S-3, AQL 6.5 percent defective. The sample unit shall be one rag. Each sample rag shall be supported so that the area being tested does not contact any surface. One drop of distilled water and one drop of light machine oil (ISO 32 grade lubricating oil), each 0.04 milliliter in volume and 70 ± 2°F, shall be applied separately to applicable sample rags through a capillary tube. The drops shall fall freely onto the rag from a height of approximately 2 inches. The time, from initial contact of the drop with the rag until the drop is completely absorbed by the rag, shall be measured using a stopwatch. The time shall be noted to the nearest 0.1 second. Failure to completely absorb the drop in less than 15.0 seconds shall fail the sample.

**Cotton Fiber Content:** The lot size shall be expressed in terms of quantity of rags in the lot, based on 200 rags per bale. The sample unit shall be one rag. The sample rags shall be randomly selected using inspection level S-3, AQL 6.5 percent defective. Rags chosen for the absorbency test may be used. The rags shall be tested in accordance with paragraph to determine the presence of cotton fiber.

**Identification of cotton:** Oils, waxes, and dirt shall be removed from the specimen by washing in one of the following: ether, acetone, alcohol, or a 5-percent aqueous solution of sodium hydroxide. Dyes shall be removed using one of the following methods:

- (a) By oxidation, using nitric acid, hydrogen peroxide, or chlorine water;
- (b) By solution, using alcohol, acetic acid, hydrochloric acid, or pyridine; or,
- (c) By reduction using hydrosulphite, stannous chloride, or hydrochloric acid with metallic zinc.

After dirt, oils, waxes, and dyes have been removed, place a dozen fibers from the sample onto a slide. The fibers shall be immersed in 3 or 4 drops of Herzberg's stain, covered with a slide (avoiding air bubbles), and allowed to stand 2 minutes with surplus stain drained off. Examine the prepared fibers with a microscope using transmitted light and 100 diameters magnification. Magnification up to 500 diameters may be used if a more detailed examination is necessary. The sample fibers shall be compared with a reference sample which has been treated in the same manner.

The color of cotton (*Gossypium* species) in the natural state, ranges from white to ecru. The staple length of commercial cottons varies from about 1.24 inch to slightly more than 2 inches. Microscopically, most fibers appear much like a twisted ribbon with rounded edges. They have no longitudinal or cross markings; the lumens vary from very narrow to over 2/3 of the diameter of the fiber. Diameters of the fibers vary from about 9 to 25 microns and average from 16-20 microns. Undyed cotton fibers are stained pink to dark red in color by Herzberg's stain.

As an alternative to the identification method described in paragraph above, ASTM Standard Test Method D 276 may be used to identify cotton fiber content.

**Moisture Content:** From the inspection sample for weight verification, randomly select 5 rags each from 5 bales (25 rags) with the moisture content to be determined immediately. If testing for moisture content is not possible immediately upon selection, the samples shall be placed in an air tight container or plastic bag and sealed to prevent moisture loss. To determine moisture content, place the rags in a tared air tight container and weigh. This weight minus the tare weight of the container is the original weight of the rags, symbolized below by "Wo". Remove the lid from the container and immediately place the container in an oven which has been preheated to a temperature of 221 - 230°F. After a minimum of 2 hours, remove the container and immediately reseal. Allow to cool. After the container has cooled, reweigh. This weight minus the tare weight of the container is the dry weight of the rags, symbolized below by "Wd". The percentage of moisture present in the samples shall be calculated using the following formula:

$$\text{Percent Moisture Content} = [(W_o - W_d)/W_o] \times 100$$

The moisture content of the samples shall be considered the moisture content of the entire lot. If the moisture content of the sample unit exceeds 7.5 percent, the entire lot shall be rejected.

**Cloth weight verification:** The lot size shall be in terms of the quantities of rags, based on 200 rags per bale. The inspection level shall be S-3, AQL 2.5 percent defective. The sample rags shall be measured for their mass per unit area as specified by ASTM D 3776. Standard conditioning of samples for weighing shall not be required except in cases of dispute. The results shall be reported to the nearest 0.1 oz/yd<sup>2</sup>. Any rag weighing less than 3.0 oz/yd<sup>2</sup> or greater than 10.0 oz/yd<sup>2</sup> shall fail.

**Examination of preparation for delivery:** A random sample of bales shall be selected from each lot for examination for conformance with the preservation, packaging, packing, labeling, and marking required in

the contract or order. Samples shall be selected in accordance with inspection level S-2, AQL 6.5, expressed in terms of defects per hundred units. The sample unit shall be one bale.

Mixed Colors: The term "mixed colors" is intended to include rags of any color, including "white" rags, as acceptable.

Sanitization: The term "sanitized" means that the rags have been subjected to temperatures of not less than 180°F during washing cycles.

Size and Measurements: The terms "width" and "length" are defined as follows:

The minimum "width" of a rag shall be the measurement between the two closest opposing points on the perimeter of the rag.

The maximum "length" of a rag shall be the distance between the two most distant points along opposing edges of the rag. When rags are nearly rectangular, the longest edge shall be considered the "length".

Tatter. The term "tatter" (see above language and Table I) means a fabric part protruding from the edge of the body of the fabric.

Rinsing Agents: In the process of rinsing rags, use of a wetting agent (surfactant) to increase the absorbency of the rags is permissible provided the rags so treated meet all requirements of this commercial item description and are non-toxic.

Rags made from U.S. flags or other national flags are strictly prohibited. Rags composed of a blue background and white stars, or red and white alternating stripes, and appear to have been a part of a United States Flag are prohibited. Individual rags must contain cotton fiber.

Rags made from material obtained from hospitals, laboratories, research facilities, etc., which were considered biohazard waste are prohibited.

Rags containing any kind of hypodermic syringe are prohibited. Discovery of a hypodermic syringe during inspection shall fail the lot.

Copies of military standards may be obtained from Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

Copies of ASTM standards may be obtained from ASTM, 1916 Race Street, Philadelphia, PA 19103.

ANSI/ASQ standards may be obtained by addressing requests for copies to the American Society for Quality, P.O. Box 3005, Milwaukee, WI 53201-3005.

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

Preparation For Delivery: The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE**

**PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of issue – BE (Fifty (50) pound bale.)

**NSN: 7920-00-205-3570**

RAG, WIPING, COTTON AND COTTON-SYNTHETIC: Shall be white only, 2.0 TO 7.0 oz/yd<sup>2</sup>, cotton and cotton-synthetic blended wiping rags made from unused or reclaimed fabrics intended for use in wiping water, oil, and grease from machinery and for miscellaneous cleaning with the following characteristics:

Material: Wiping rags shall be all cotton or cotton-synthetic blends made from either clean mill ends and mill remnants or reclaimed fabrics from household articles and garments. Rags shall be soft, absorbent, and of either woven or knitted construction. Heavily napped fabrics, mesh fabrics constructed from hard twisted yarns, and starched or stiffened fabrics are not acceptable. Rags made from United States flags, national flags of foreign countries or rags made from fabrics obtained from laboratories, hospitals, clinics or any other source considered to be biohazard waste or remnants thereof are strictly prohibited.

Size and measurement: Each wiping rag shall have an area of not less than 200 in<sup>2</sup> and shall be not less than 9.0 inches in width and not greater than 44.0 inches in length (see below).

Weight: Wiping rags shall not weigh less than 2.0 oz/yd<sup>2</sup> or greater than 7.0 oz/yd<sup>2</sup> when tested in accordance with the testing requirements below.

Absorbency rate: All rags shall absorb water and oil within 15.0 seconds when tested in accordance with the testing requirements below.

Moisture Content: Rags shall have a moisture content not greater than 7.5 percent when tested in accordance with the testing requirements below.

Washing and sanitization: All rags shall be thoroughly washed, rinsed, and sanitized (see below). The sanitizing process shall include subjecting the rags to temperatures of not less than 180°F (82°C) during washing cycles (see below). This processing shall be performed in the United States, its possessions, or Puerto Rico.

Defective Characteristics: Rags exhibiting any of the following characteristics shall be considered defective:

- (a) Rags containing stains which cover more than 10 percent of the area of the rag.
- (b) Rags containing an aggregate of more than 1 in<sup>2</sup> of hardened surface.
- (c) Rags containing dirt, dust, abrasives, or other clearly noticeable nonfibrous materials.
- (d) Rags made of mesh fabrics, such as lace, scrim, and netting, except that mesh will be acceptable as a border if not greater than 1.0 inch in depth on an otherwise acceptable rag.
- (e) Rags badly worn or tender so as to be unsuitable for the intended purpose (see below).
- (f) Tattered parts less than 3.0 inches in width and greater than 6.0 inches in length.
- (g) Edges frayed or raveled continuously or intermittently to a depth greater than 2.0 inches.
- (h) Rags made from unopened sleeves and pants, shorts, and drawer legs.
- (i) Any rags made from United States flags, national flags of foreign countries or biohazard waste, or remnants thereof.
- (j) Rags containing buttons, hooks, eyes, pins, or any other metallic or plastic fittings.

- (k) Rags containing elastic yarns amounting to more than 5 percent of the area of the rag.
- (l) Rags made from fabrics containing crotches, cuff hems, waistbands, pockets, collar reinforcements, weltings, and pipings greater than 0.5 inch in width, and unopened hems greater than 0.5 inch in width are unacceptable, except for rags made from sheets and pillow cases containing hems greater than 4.0 inches in width.

Put up. Any bale weighing less than 49.75 lb or measuring greater than 3.5 ft<sup>3</sup> shall be cause for rejection of the lot (see PACKAGING/PACKING below).

Workmanship: The wiping rags shall function for the purpose intended. No defects that affect serviceability shall be permitted.

Responsibility for inspection: Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the contractor may utilize his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

Certificate of compliance: When certificates of compliance for test requirements are submitted, the Government reserves the right to inspect such items to determine the validity of the certification. Certificates of compliance shall be accompanied by actual test results dated not more than one year prior to the date of the start of the contract or date of purchase order. The contractor shall provide the name and address of the laundry where the rags have been washed, rinsed, and sanitized if this process is not performed by the contractor.

Sampling: Unless otherwise specified, sampling shall be in accordance with American National Standards Institute (ANSI)/American Society for Quality Control (ASQC) Z1.4, "Sampling Procedures and Tables for Inspection by Attributes."

Lot formation: All bales of wiping rags of the same grade and color from the same manufacturer offered for delivery at one time shall be considered a lot for purposes of inspection.

Weight/volume verification: Select 10 bales from the lot and determine the minimum net weight per bale. The average minimum weight of the bales shall be 50 lb. Any single weight determination of less than 49.75 lb shall be cause for rejection of the lot (see above).

Select 5 of the 10 bales and determine the volume of each bale. Any bale measuring greater than 3.5 ft<sup>3</sup> (in volume) shall be cause for rejection of the lot.

Sampling for visual and dimensional examination: For the purpose of visual and dimensional inspection, the lot shall be defined as the number of rags submitted for inspection (this shall be the number of bales multiplied by 200, the approximate number of rags per bale). Sampling shall be in accordance with inspection level S-4, AQL 2.5 percent defective for major defects and 4.0 percent defective for minor defects. The sample unit shall be one rag. No more than five rags shall be selected from any one sample bale. Rags shall be selected at random and examined for the defects as listed in Table I. During this examination, if any rag is suspected of not containing cotton by visual examination or by feel, all rags in the sample are to be tested in accordance with the "Identification of cotton" paragraph below. If any rag fails the test in accordance with "Identification of cotton", it shall be classified as a major defect.

TABLE I. Examination for Visual and Dimensional Characteristics.

Defects	Classification
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	Major	Minor
<b>One or more rags made from United States flags, national flags of foreign countries, or is found to have been part of biohazard waste or remnants thereof shall cause the entire lot to be rejected.</b>		
a. Rags containing no cotton fiber (any amount of linen or flax fiber is acceptable)	X	
b. Dirt, dust, and abrasive material		X
c. Rags containing elastic yarns in excess of 5 percent of the area of the rag		X
d. Objectionable odor		X
e. Not of specified dimensions	X	
f. An aggregate of more than 1.0 in <sup>2</sup> of hardened surface	X	
g. Rags weighing less than or more than the amount specified	X	
h. Rags made of mesh fabrics, such as lace, scrim, and netting, except that mesh will be acceptable as a border not more than 1 inch in depth on an otherwise acceptable rag	X	
i. Rags made from starched or stiffened fabrics	X	
j. Rags made from heavy napped fabrics and fabrics woven with hard twisted yarns	X	
k. Stains which cover more than 10 percent of the area of the rag	X	
l. Badly worn or tendered as to be unsuited for the intended purpose	X	
m. Tattered parts less than 3.0 inches in width and greater than 6.0 inches in length		X
n. Edge frayed or raveled continuously or intermittently to a depth greater than 2.0 inches		X
o. Unopened sleeves, pants and drawer legs		X
p. Buttons, hooks, eyes, closed safety pins, or any other metallic or plastic fittings (one or more)		X
q. Rags that have not been thoroughly washed, rinsed, and sanitized	X	
r. Rags containing fiber content labels that declare 100 percent synthetic fiber	X	
s. <b>Foreign objects or dangerous materials such as nails, tacks, pins, opened safety pins, needles, glass, sharp edged metal items, etc.</b>	3X*	
t. Unopened hems greater than 0.5 inch in width		X
u. Rags containing crotches, cuff hems, waistbands, collar reinforcements, pockets, weltings, and pipings greater than 0.5 inch in width which are not sheets. Rags not white.	X	

\* Defect is equivalent to three major defects as signified by "3X"

Examination for tenderness: Wiping rags which are in question as to tenderness shall be examined in the following manner:

The rag shall be grasped on opposite edges so that it remains fully opened and flat. There shall be approximately 3 inches of material gathered in each hand. With the arms extended, the rag shall be subjected to a steady outward force. If the rag can be easily separated in this manner, it shall be considered tender.

Testing: Rags shall be tested for characteristics detailed below for each lot of material presented for delivery.

**Absorption:** The lot size shall be expressed in terms of quantity of rags in the lot, based on 200 rags per bale. The inspection level shall be S-3, AQL 6.5 percent defective. The sample unit shall be one rag. Each sample rag shall be supported so that the area being tested does not contact any surface. One drop of distilled water and one drop of light machine oil (ISO 32 grade lubricating oil), each 0.04 milliliter in volume and  $70 \pm 2^\circ\text{F}$ , shall be applied separately to applicable sample rags through a capillary tube. The drops shall fall freely onto the rag from a height of approximately 2 inches. The time, from initial contact of the drop with the rag until the drop is completely absorbed by the rag, shall be measured using a stopwatch. The time shall be noted to the nearest 0.1 second. Failure to completely absorb the drop in less than 15.0 seconds shall fail the sample.

**Cotton Fiber Content:** The lot size shall be expressed in terms of quantity of rags in the lot, based on 200 rags per bale. The sample unit shall be one rag. The sample rags shall be randomly selected using inspection level S-3, AQL 6.5 percent defective. Rags chosen for the absorbency test may be used. The rags shall be tested in accordance with paragraph to determine the presence of cotton fiber.

**Identification of cotton:** Oils, waxes, and dirt shall be removed from the specimen by washing in one of the following: ether, acetone, alcohol, or a 5-percent aqueous solution of sodium hydroxide. Dyes shall be removed using one of the following methods:

- (a) By oxidation, using nitric acid, hydrogen peroxide, or chlorine water;
- (b) By solution, using alcohol, acetic acid, hydrochloric acid, or pyridine; or,
- (c) By reduction using hydrosulphite, stannous chloride, or hydrochloric acid with metallic zinc.

After dirt, oils, waxes, and dyes have been removed, place a dozen fibers from the sample onto a slide. The fibers shall be immersed in 3 or 4 drops of Herzberg's stain, covered with a slide (avoiding air bubbles), and allowed to stand 2 minutes with surplus stain drained off. Examine the prepared fibers with a microscope using transmitted light and 100 diameters magnification. Magnification up to 500 diameters may be used if a more detailed examination is necessary. The sample fibers shall be compared with a reference sample which has been treated in the same manner.

The color of cotton (*Gossypium* species) in the natural state, ranges from white to ecru. The staple length of commercial cottons varies from about 1.24 inch to slightly more than 2 inches. Microscopically, most fibers appear much like a twisted ribbon with rounded edges. They have no longitudinal or cross markings; the lumens vary from very narrow to over 2/3 of the diameter of the fiber. Diameters of the fibers vary from about 9 to 25 microns and average from 16-20 microns. Undyed cotton fibers are stained pink to dark red in color by Herzberg's stain.

As an alternative to the identification method described in paragraph above, ASTM Standard Test Method D 276 may be used to identify cotton fiber content.

**Moisture Content:** From the inspection sample for weight verification, randomly select 5 rags each from 5 bales (25 rags) with the moisture content to be determined immediately. If testing for moisture content is not possible immediately upon selection, the samples shall be placed in an air tight container or plastic bag and sealed to prevent moisture loss. To determine moisture content, place the rags in a tared air tight container and weigh. This weight minus the tare weight of the container is the original weight of the rags, symbolized below by "Wo". Remove the lid from the container and immediately place the container in an oven which has been preheated to a temperature of 221 - 230°F. After a minimum of 2 hours, remove the container and immediately reseal. Allow to cool. After the container has cooled, reweigh. This weight minus the tare weight of the container is the dry weight of the rags, symbolized below by "Wd". The percentage of moisture present in the samples shall be calculated using the following formula:

$$\text{Percent Moisture Content} = [(W_o - W_d)/W_o] \times 100$$

The moisture content of the samples shall be considered the moisture content of the entire lot. If the moisture content of the sample unit exceeds 7.5 percent, the entire lot shall be rejected.

Cloth weight verification: The lot size shall be in terms of the quantities of rags, based on 200 rags per bale. The inspection level shall be S-3, AQL 2.5 percent defective. The sample rags shall be measured for their mass per unit area as specified by ASTM D 3776. Standard conditioning of samples for weighing shall not be required except in cases of dispute. The results shall be reported to the nearest 0.1 oz/yd<sup>2</sup>. Any rag weighing less than 2.0 oz/yd<sup>2</sup> or greater than 7.0 oz/yd<sup>2</sup> shall fail.

Examination of preparation for delivery: A random sample of bales shall be selected from each lot for examination for conformance with the preservation, packaging, packing, labeling, and marking required in the contract or order. Samples shall be selected in accordance with inspection level S-2, AQL 6.5, expressed in terms of defects per hundred units. The sample unit shall be one bale.

White: The term "white" shall be interpreted to mean the following type of rags: unbleached, fully bleached, and colored rags from which the dye color has been completely removed (stripped rags) except that evidence of a dye color on seams of stripped rags will be acceptable. Ornamental colored trimmings are acceptable provided the trimmings do not cover more than 5 percent of the area of the rag.

Sanitization: The term "sanitized" means that the rags have been subjected to temperatures of not less than 180°F during washing cycles.

Size and Measurements: The terms "width" and "length" are defined as follows:

The minimum "width" of a rag shall be the measurement between the two closest opposing points on the perimeter of the rag. The maximum "length" of a rag shall be the distance between the two most distant points along opposing edges of the rag. When rags are nearly rectangular, the longest edge shall be considered the "length".

Tatter: The term "tatter" (see above language and Table I) means a fabric part protruding from the edge of the body of the fabric.

Rinsing Agents: In the process of rinsing rags, use of a wetting agent (surfactant) to increase the absorbency of the rags is permissible provided the rags so treated meet all requirements of this commercial item description and are non-toxic.

Rags made from U.S. flags or other national flags are strictly prohibited. Rags composed of a blue background and white stars, or red and white alternating stripes, and appear to have been a part of a United States Flag are prohibited. Individual rags must contain cotton fiber.

Rags made from material obtained from hospitals, laboratories, research facilities, etc., which were considered biohazard waste are prohibited.

Rags containing any kind of hypodermic syringe are prohibited. Discovery of a hypodermic syringe during inspection shall fail the lot.

Copies of military standards may be obtained from Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

Copies of ASTM standards may be obtained from ASTM, 1916 Race Street, Philadelphia, PA 19103.

Application for copies of ANSI/ASQC standards should be addressed to American Society for Quality Control, PO Box 3005, 611 E. Wisconsin Avenue, Milwaukee, WI 53201-4606.

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS**

**REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

Preparation For Delivery: The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of issue – **BE** (Fifty (50) pound bale).

**NSN: 7920-00-224-8726**

**MOP, WET, COTTON, WITH FIXED HANDLE:** Shall be a cotton mop with a fixed handle for use in swabbing floors and decks with the following characteristics:

The wood for the handles shall be hardwood, Douglas fir, or southern yellow pine. The wood shall be free of knots, shakes, wane, worm holes, heart center, rot, dote, and brash. The wood shall not have a cross grain or spiral grain sloping more than 1 inch in 15 inches.

The yarn for the mophead shall be not less than 4-ply bleached or unbleached cotton yarn, with a minimum breaking strength of 15 lbs (67 N), and measuring a maximum of 600 yds/lb. when tested in accordance with ASTM D 204.

The wrapping twine shall be either a cotton seine twine, 3-ply, 20 strands per ply, with a minimum breaking strength of 108 lbs and measuring a maximum of 100 yds/lb; or a 5 ply twine with a minimum breaking strength of 186 lbs and measuring a maximum of 88 yds/lb.



Figure 1

The handles shall be 60 (+/-) 1/2 inches in length and  $1 \pm 1/8$  inch in diameter. The finished handles shall be straight, rounded at both ends and of uniform diameter. Each handle shall be sanded smooth and completely coated with a clear permanent waterproof coating.

The swab shall consist of not less than 1-1/2 lbs of the cotton yarn specified above. Individual strands shall not be less than 38 inches in length. The finished mophead shall measure not less than 17 inches in length and the ends of the strand shall be evenly trimmed.

The handle shall be notched and drilled as necessary to facilitate secure attachment of the mophead. The mophead shall be firmly attached to the handle with the twine specified above. The twine shall be secured to the handle by passing through a hole in the handle and secured in some manner. The finished mop shall have the mophead yarns distributed evenly around the handle. Sufficient turns of the twine shall be used to hold the mophead securely on the handle. The mopheads shall not show any looseness when the mophead is grasped and pulled and twisted while holding the handle secure.

The handle shall be clean, straight, of uniform diameter, and not showing any defects in wood quality, finish, or assembly. The mopheads shall be securely attached to the handle and shall not be tangled or show any dirt. The mops shall have no defects that affect appearance, function, or serviceability.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

**PREPARATION FOR DELIVERY:** The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of issue – EA (each).

**NSN: 7920-00-234-9317**

BRUSH, SANITARY: Shall be a light duty, sanitary cleaning, straight head brush, with a wooden handle that has the following characteristics:

The brush shall meet the requirements of Table I and be configured similar to Figure 1. The wood handle shall have spiral grooves around the circumference of the brush from which the filler extends. The end may be as depicted by figure 1 or may be a separated tuft extending out the end of the wood handle. The brush filler shall be polypropylene or tampico at the option of the manufacturer. The end of the wire near the handle shall be anchored to the handle by a nail. The filler shall project perpendicularly from the wood and flare around the circumference of the wood forming a dense, evenly trimmed working surface over the entire brush head.

Table I. Physical Requirements of Brushes.

Characteristic:	Requirements:
Handle, inches :	
Length from base of brush	16 ±1
Diameter	15/16 ±1/16
Brush part, inches :	
Diameter	4 + 1/2, -1/4
Length	5-1/2 ±1/4
Filler:	
Length from handle, inches	1-1/2 minimum
Weight per brush, ounces:	
Polypropylene	1.40 minimum
Tampico	1.96 minimum

The polypropylene filler shall have a minimum average diameter of 0.011 inch, and shall be natural color (undyed) or black. The tampico filler shall be natural color (undyed), unbleached, tula tampico fiber. The filler shall be evenly and closely distributed in the twists of two wires, the wire ends shall be inserted into the handle. The filler shall project perpendicular from the wire in the brush head and flare around the circumference of the wire forming a dense working surface over the entire brush head. The filler shall be evenly trimmed.

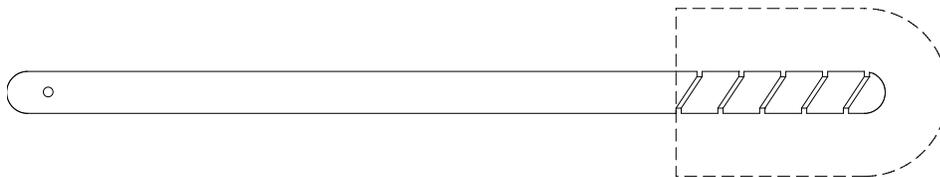


Figure 1

The wood handle of the brushes shall be close-grain and straight-grain hardwood, medium or high density, free from defects which may affect serviceability or appearance. The handle shall be straight, circular in cross-section, and of the same diameter throughout. The end opposite where the brush head inserts shall be rounded and have a hole for hanging the brush. The finished wood handle shall be coated with a clear, water resistant coating.

The brushes shall be free from defects which may affect serviceability or appearance.

Unit of Issue – EA (each).

**NSN: 7920-00-240-2555**

**SPONGE, REGENERATED CELLULOSE:** Shall be rectangular, 3-5/8 inch wide X 5-3/4 inch long X 1-3/4 inch thick, compressed, natural colored, regenerated cellulose sponges with the following characteristics:

In addition to the material requirements below, the sponges shall include such compounding ingredients as necessary to produce a soft pliable sponge when wet.

The cellulose sponge shall be made of regenerated cellulose. The sponge shall be soft and pliable, and shall resist any degradation when exposed to normal household cleaning products. The sponges shall have absorption of 1500% minimum. The percentage absorption shall be determined when tested and calculated as described below.

The absorption of the sponges shall be determined as follows: The sample sponge be washed free of contaminants by a minimum of 5 cycles of being immersed in distilled water and hand squeezed as dry as possible. [Conditioning of the samples at 72±2°C and 50±4% relative humidity for 24 hours shall be required only in instance of dispute of absorption compliance.] The samples shall be weighed to the nearest 10 mg, this value shall be designated W1. The samples shall then be immersed in distilled water and squeezed until all the air has been expelled. Using a non-squeezing hanging device, remove the sponge from the water and allow to drain for 30 seconds. Place on tared holder and reweigh, this value shall be designated W2. Calculate the percent absorption as follows:

$$\text{Percent absorption} = [(W2-W1)/W1] \times 100$$

Submersion in boiling water for 2 hours shall not change the feel, flexibility, or color of the sponge.

The regenerated cellulose sponges shall have tensile strength of 25 psi minimum. The test shall only be performed on uncut sponge batches. The sample(s) to be tested shall be thoroughly wetted and hand squeezed as dry as possible. Samples shall be cut 2 inches wide, 2 inches long, and 1 inch thick. The tensile strength shall be determined by Method 5100 of FED-STD-191, except that the distance between

the jaws shall be 1 inch. The breaking force in pounds divided by the cross-section area in square inches equals the tensile strength in psi.

The sponges shall have pores which average 3/32 inch or less in diameter. The average diameter shall be measured by randomly selecting a bounded area on the surface of the sponge, such as a box 1-1/4 inch by 1-1/4 inch drawn on the surface of the sponge. The whole pores within the box shall be counted and measured, and the average diameter calculated.

The furnished sponge shall be dry and compressed and the thickness of the sponge after compression shall be not more than 20 percent of thickness when wetted.

The dimensions specified for the length and widths shall be minimums, the tolerance for the specified thickness shall be -0 and +0.2 inch.

The natural color shall be a commonly accepted shade. The color shall not bleed when exposed to boiling water for 5 minutes.

Sponges shall conform to the quality and grade of product established by this description. Sponges shall contain no ingredient which may be harmful to the skin. Sponges shall be free from defects which may affect their durability, serviceability and appearance. The sponges shall be soft and pliable when wet, sent free, uniform in color, and ready to use without further preparation.

Testing to establish conformance with the requirements of this description shall be performed on the initial lot of material supplied to the government and thereafter when manufacturing methods, materials or supply sources change.

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

**PREPARATION FOR DELIVERY:** The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of issue – PG, (Twelve (12) sponges). Each unit of issue (PG) shall be packaged, packed and marked for redistribution.

**NSN: 7920-00-240-6358**

BRUSH, DUSTING, BENCH: Shall be a wood or plastic bakery bench dusting brush with fine synthetic filler with the following characteristics:

The synthetic filler shall be fine nylon, polypropylene, or polyester and may be color coded in accordance with standard commercial practice, level or crimped, with a round cross-section and an average diameter of 0.014 ± 0.002 inch.

The blocks shall be one-piece wood or plastic. Wood used for blocks and handles shall be close-grained and straight-grained hardwood with no cracks, checks, splinters, or other defects which may affect appearance or serviceability. The finished wood blocks shall be sanded smooth. Plastic blocks shall be a modified general purpose polypropylene material, and shall be dense, uniform, and free from voids or channels.

When used, drawing wire shall be 0.015 inch minimum diameter brass or copper alloy wire. In the finished product, the wire ends shall be concealed within the brush head.

When used, staple wire shall be a commercial quality wire normally used for the purpose intended.

The brushes shall meet the requirements of table 1 and shall be configured similar to figure 1. The brush filler shall be 100% fine synthetic filament. The tufts shall be secured within each tuft hole in such a manner that the tufts will withstand a 4 pound pull for one minute and not loosen, break, or pull out of the block. The brush block shall be permanently marked with the manufacturer's name or recognized trademark.

Table 1.

Characteristic:	
Block, inches minimum:	
Length, overall	13
Length, brush part	8
Width, brush part	1-3/4
Thickness, brush part	13/16
Filler, inches minimum:	
Length clear of block	3-1/8 <sup>1</sup> +/- 1/8
Spread	4
Filler weight, ounces minimum	4
Holes, number, minimum	75 (in 5 rows)

<sup>1</sup> Within 2 inches of the nose, the filler may be 1/4 inch less than specified.

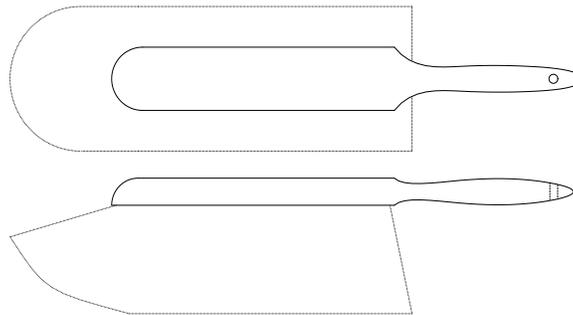


Figure 1

Unit of Issue – EA (each)

**NSN: 7920-00-240-7174**

BRUSH, SCRUB, HOUSEHOLD: Shall be in accordance with the following purchase description:

Requirements.

Material.

Filler Material: The fiber shall be 100% polypropylene.

Block: The block shall be hardwood, dense and close grained, or a commercially acceptable plastic brush block suitable for the purpose intended.

Staple wire: The wire shall be commercial quality carbon steel or CRES of not less than 0.034 inch diameter wire normally used to manufacture scrub brushes.

Construction: The brush shall be similar in appearance to Figure 1 except the lengthwise sides shall be slightly concave to facilitate gripping and shall meet the dimensional requirements of table I. The finished block shall be smooth and if wood shall not have any splinters or rough spots. The specified amount of fiber shall be firmly set into the tuft holes by the staple wire specified. The tuft shall not pull free when grasped and pulled by hand. The finished brush face presented by the fibers shall be cut square, straight, and parallel with the block. The working surface shall be dense with no gaps or holes.

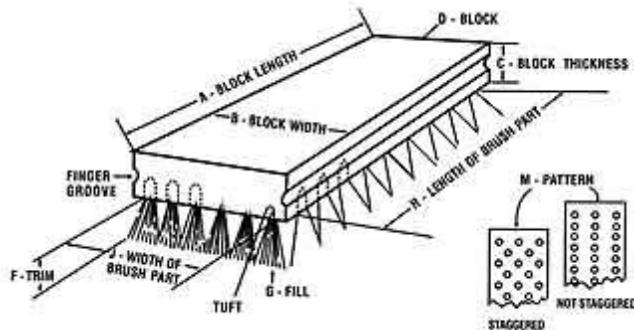


Table I, Physical requirements

Block:		
Length, inches, minimum		7-11/16
Width, inches, minimum		2-1/2
Thickness, inches, minimum		9/16
Tuft holes, depth, inch, minimum		1/4
Number of holes, minimum		70
Fiber:		
Length clear of block, inches, minimum		1-3/16
Weight, ounces, minimum		1.75

Special marking. Each block shall be permanently marked with the manufactures name or trade mark.

Unit of issue: EA (each).

**NSN 7920-00-243-3407**

**BROOM, FLOOR, SWEEPING (WITHOUT HANDLE):** Shall be an 18 inch, fine natural fiber or fine polyester filament floor sweeping brush, with filler set in wood or plastic block, without handle, with the following characteristics:

Block: The block shall be wood or plastic at the manufacturer's option. Wood blocks shall be fine textured, close and straight grained hardwood and shall have least one coat of clear protective finish. Plastic blocks shall be general purpose impact resistant plastic molding material commercially used for floor brushes. The block shall have rounded or beveled edges and ends. The block may be one or two piece construction. The two piece block shall be used only for wire drawn brushes. The two piece block shall be fastened together with rivets, or bolts using lock washers and nuts or washers and locknuts. Two

ACME threaded holes shall be provided for handles in the top of each block, centered longitudinally. The holes shall be drilled at an angle of  $45^{\circ} \pm 10^{\circ}$  from the vertical through the block, or to a minimum depth of 1-1/16 inch. Each hole shall be threaded with an ACME thread having 5 threads per inch.

Wire: Drawing or staple wire used shall be wire normally used for floor brushes.

Filler: The brush filler shall be as specified. The weight of the trimmed filler material in each brush shall be as specified in Table I, and shall be the filler as removed from the end item. The synthetic filaments shall be feathered at the ends.

Filament: The brushes shall be made from fine natural fiber or fine polyester filament at the option of the contractor. The fine natural fiber shall be either 100 percent horsetail hair or a 50/50 ( $\pm 5\%$ ) mixture of horsetail hair and a vegetable fiber such as cocoa fiber, at the manufacturer's option. Horsetail hair used shall be extra stiff, natural horsetail hair, cleaned and sterilized.

Construction: The construction of the brushes shall conform to the requirements specified in Table I and shall appear similar to Figure 1. The brushes shall be either staple set or wire drawn. The tufts shall not loosen, break, or pull out of the brush when pulled by hand.

Table I. Physical Requirements.	
Characteristic:	Requirement:
Block:	
Length, inches, minimum	17-3/4
Width, inches, minimum	2-7/16
Thickness:	
Wood, inch, minimum	15/16
Plastic, inch, minimum	7/8
Tuft holes:	
Number	203
Depth, inch, minimum	5/16
Filament:	
Length, clear of block, inches, minimum	3
Weight per brush, ounces, minimum	9-3/4

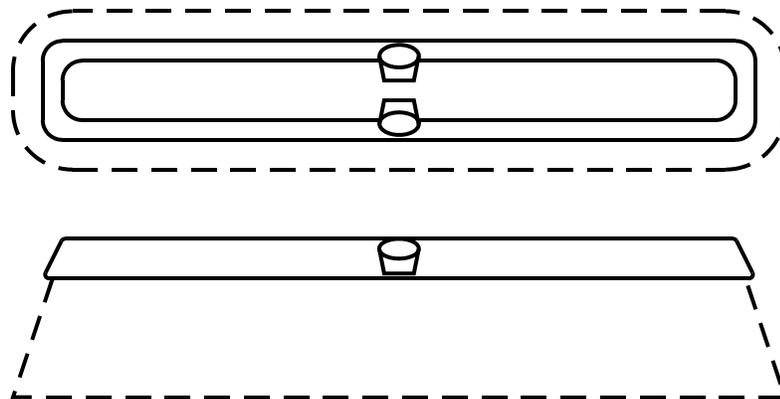


Figure 1

Trim: The finished brush filler material shall be evenly and uniformly trimmed to conform to the dimensional requirements of the finished brushes.

Marking: Each block shall be clearly and permanently marked with the manufacturer's name or recognized trademark.

Workmanship: The brushes shall be free from defects which may affect their serviceability, durability or appearance. All surfaces shall be neatly constructed and finished and shall have no sharp edges. Wood blocks shall be free of splinters and of torn or loose grain. Plastic blocks shall be free from voids or channels. The filler material shall be free from foreign matter.

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

PREPARATION FOR DELIVERY: The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of Issue – EA (each).

**NSN: 7920-00-260-1279**

TOWEL, MACHINERY WIPING: Shall be 100% cotton wiping towels which are intended for heavy-duty wiping of water, oil and grease with normal cleaning solutions, and are intended to be washable and reusable with the following characteristics:

The cloth shall be 100% cotton with a plain weave. The cloth shall meet the physical characteristics of Table I.

Table I. Physical Characteristics.

Characteristics:	Value:	Test Method of FED-STD-191:
Weight	153 g/m <sup>2</sup> minimum	5041
Yarn count:		
Warp direction	28 yarns minimum	5050
Filling direction	18 yarns minimum	5050
Breaking strength:		
Warp direction	133 N minimum	5100
Filling direction	222 N minimum	5100

The starch and protein content including chloroform-soluble and water-soluble material of the finished towels shall not exceed 12 percent when tested in accordance with FED-STD-191 Method 2611.

The finished towels may be bleached or unbleached.

Unless otherwise specified the finished towels shall have a surface area of no less than 1916 cm<sup>2</sup>, with a minimum side dimension of 38 cm.

All cut edges of the towel, except for a selvage on one side, shall be overedged stitched to prevent raveling. There shall be no raw edges. Thread used for stitching shall be 100% cotton.

The towels shall be clean, absorbent, and free from defects which may affect appearance or serviceability.

Unit of issue – BX (50 towels per box).

**NSN: 7920-00-263-0328**

HANDLE, ACME THREADED END: Shall be straight, 5 foot, 15/16 inch diameter, ACME threaded end wood handles with the following characteristics:

The handles shall be constructed of close-grained and straight wood. The handles shall not be fabricated from woods with a cross grain or spiral grain sloping more than 1 inch in 15 inches. The wood shall be dried, seasoned, and prepared prior to fabrication.

The diameter of the handle shall be as specified and shall be uniform throughout it's length. The handle shall be straight and shall not have a crook, warp, or bow that causes an eccentricity of more than 3/8 inch when the handle is rolled on a flat surface. The handle ends opposite the attachment end shall be rounded. The attachment end shall have a threaded ferrule as specified below.

The handle shall have a metal ferrule with 3/4" diameter, 5 threads per inch ACME form threads permanently attached to one end. The ferrule shall be composed of aluminum or corrosion resistant steel. The threads shall conform to the dimensions of Figure 1, with a minimum of 4 full threads. The end of the ferrule shall be rounded or beveled. The attachment of the ferrule to the handle shall be sufficient to withstand a weight of 10 pounds attached to the ferrule being dropped 12 inches with the handle held vertically, ferrule end down; the ferrule shall not be displaced more than 1/4 inch.

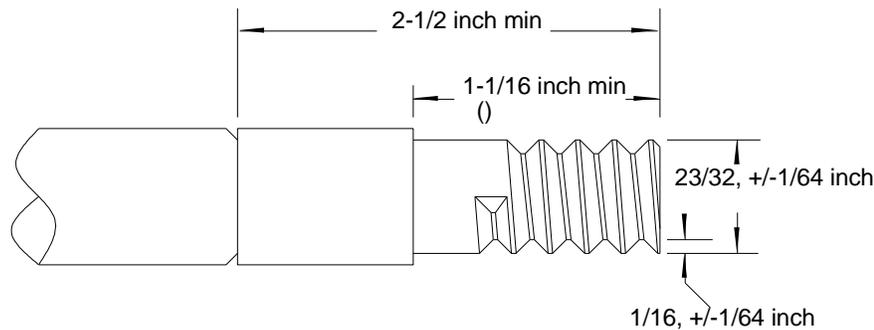


Figure 1.

The specified diameter tolerance shall be plus or minus 1/32 inch.

The tolerance for the length specified shall be plus or minus 1/2 inch. Handles shall be one piece and fabricated from a single piece of wood. The length shall be the overall length including any attached ends.

The handles, except for metal components, shall be sanded smooth and coated with a durable, protective, clear, and water resistant finish. The coating shall be continuous, smooth, uniform, and provide a glossy finish.

The handles shall be clean, straight, free from raised grain, smoothly finished, free of mold, and free of any defects that may affect serviceability, durability, or appearance.

Unit of Issue – EA (each).

**NSN: 7920-00-263-8528**

MOPPING OUTFIT, FLOOR: Shall be a floor mopping assembly consisting of a 26 quart steel bucket and a pressure-plate squeeze-type wringer with the following characteristics:

Wringer: The wringer assembly shall be fabricated of steel and malleable iron, zinc coated, as specified by designation G-90 of ASTM A653, latest edition, as a minimum, to resist corrosion and shall have a painted handle with a plastic hand grip. The wringer shall be of a size that is compatible and functional with the referenced size bucket. Minimum interior dimensions of the fixed face shall be 8-7/8 inches wide and 5-1/2 inches high midway between the faces (excluding paddles), and 6-1/8 inches deep between the faces.

Wringer test: Place a block of wood or other suitable material in the mop compartment of sufficient thickness so that the pressure plate or bars, as applicable, bottom on the block when the handle is in a horizontal position. Apply a load of  $250 \pm 5$  pounds perpendicular to the handle where the hand normally grips and hold the load for 5 to 10 seconds. Examine the wringer for conformance to the following. If the wringer parts, including handles, loosen, break, separate, permanently deform, or are damaged in any way that will affect normal functioning of the wringer or cause the wringer to hang up on the side of the bucket, the wringer fails the test.

Bucket: The 26 quart buckets shall be zinc coated as specified by designation G-90 of ASTM A653, latest edition, as a minimum, to resist corrosion. The sides and bottom of the bucket shall be composed of galvanized steel a minimum of 0.023 inch thick. The buckets shall be oval in shape and shall be mounted on a spider chassis (bucket carrier) with four swivel casters. The chassis shall have rubber or plastic bumpers. The bucket shall have a galvanized bail with a finished diameter no less than 0.24 inch. All bucket seams shall be seamed.

Bucket, rim, and sidewall test: Remove the spider chassis from the bucket. If the spider chassis is not removable, remove the casters only. Using a wringer designed for use with the size bucket to be tested, mount the wringer to the bucket rim in the conventional manner. Place a block of wood or other suitable material of sufficient thickness in the mop compartment so that the pressure plate or bars, as applicable, bottom on the block when the handle is in the horizontal position. Apply a test load of  $250 \pm 5$  pounds perpendicular to the handle where the hand normally grips and hold the load for 5 to 10 seconds. The wringer may be modified if necessary to be able to be used in this test. If the top rim or bucket walls show any readily apparent visual permanent deformation, the bucket fails the test.

Chassis: The chassis shall be furnished with rubber or plastic bumpers.

Casters: The casters shall be not less than 1-7/8 inches in diameter.

Workmanship: The wringers shall present a neat, finished appearance and shall have no sharp, jagged, or rough edges, and shall be free from defects which may affect their function, serviceability, or appearance.

Unit of Issue – OT (Outfit).

**NSN: 7920-00-264-4638**

BROOM, PUSH (WITHOUT HANDLE): Shall be a 30 inch, medium mixed filament floor sweeping brushes, with filler set in wood or plastic blocks, without handles with the following characteristics:

Block: The block shall be wood or plastic at the manufacturer's option. Wood blocks shall be fine textured, close and straight grained hardwood and shall have least one coat of clear protective finish. Plastic blocks shall be general purpose impact resistant plastic molding material commercially used for floor brushes. The block shall have rounded or beveled edges and ends. The block may be one or two piece construction. The two piece block shall be used only for wire drawn brushes. The two piece block shall be fastened together with rivets, or bolts using lock washers and nuts or washers and locknuts. Two

ACME threaded holes shall be provided for handles in the top of each block, centered longitudinally. The holes shall be drilled at an angle of  $45^\circ \pm 10^\circ$  from the vertical through the block, or to a minimum depth of 1-1/16 inch. Each hole shall be threaded with an ACME thread having 5 threads per inch.

Wire: Drawing or staple wire used shall be wire normally used for floor brushes.

Filler: The brush filler shall be as specified. The weight of the trimmed filler material in each brush shall be as specified in Table I, and shall be the filler as removed from the end item. The synthetic filaments shall be feathered at the ends.

Filament: The brushes shall be made from a 50/50 ( $\pm 5\%$ ) mixture of fine natural fiber, or fine polyester filament, and tampico fiber or medium polypropylene filament. Fine polyester filament shall be a level or crimped polyester filament with a round cross-section and an average diameter of  $0.0140 \pm 0.0005$  inch. Medium polypropylene filament shall be a level or crimped polypropylene filament with a round cross-section and an average diameter of  $0.0140 \pm 0.0005$  inch. Tampico fiber shall be of natural or black dyed color. The color of the synthetic filler shall be the manufacturer's option.

Construction: The construction of the brushes shall conform to the requirements specified in Table I and shall appear similar to figure 1. The brushes shall be either staple set or wire drawn. The tufts shall not loosen, break, or pull out of the brush when pulled by hand.

Table I, Physical Requirements.	
Characteristic:	Requirement:
Block:	
Length, inches, minimum	29-3/4
Width, inches, minimum	2-7/16
Thickness:	
Wood, inch, minimum	15/16
Plastic, inch, minimum	7/8
Tuft holes:	
Number	346
Depth, inch, minimum	5/16
Filament:	
Length, clear of block, inches, minimum	3
Weight per brush, ounces, minimum	16-9/32

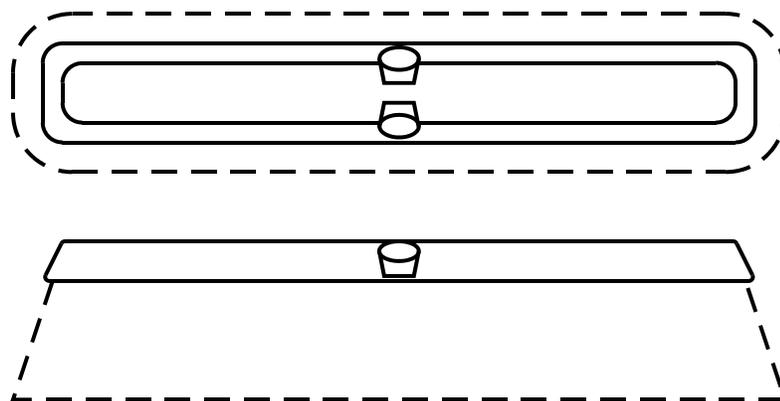


Figure 1.

Trim. The finished brush filler material shall be evenly and uniformly trimmed to conform to the dimensional requirements of the finished brushes.

Brace: The broom shall be provided with a brace to support the handle. The brace design shall be at the manufacturer's option, shall allow use of either hole in the block, shall be usable with any handle that can be used with the brush, shall be received complete and ready for assembly without any modification necessary, and shall be initially assembled and allow movement or replacement of the handle with basic hand tools only. The brace shall extend diagonally from the each end of the block to the handle as depicted in Figure 2. The brace shall extend from points a minimum of 8 inches from the handle centerline towards each end, to a minimum of 8 inches up the handle from the block.

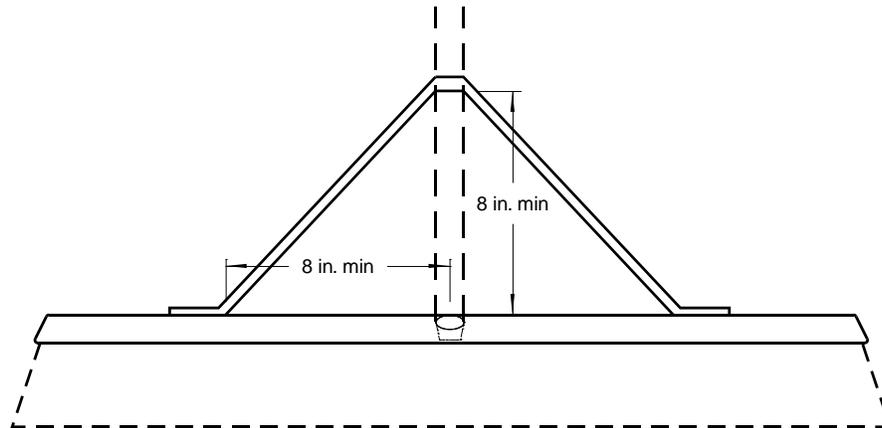


Figure 2.

Marking: Each block shall be clearly and permanently marked with the manufacturer's name or recognized trademark.

Workmanship: The brushes shall be free from defects which may affect their serviceability, durability or appearance. All surfaces shall be neatly constructed and finished, and shall have no sharp edges. Wood blocks shall be free of splinters and of torn or loose grain. Plastic blocks shall be free from voids or channels. The filler material shall be free from foreign matter.

Unit of Issue – EA (each).

**NSN: 7920-00-267-1218**

HANDLE, MOP, WET: Shall be a 60 inch long wood mop handle and screw type attachment fixture to hold wet-cleaning string type mopheads with the following characteristics:

The wood for the handles shall be a close-grained and straight-grained, and shall be wood normally used for mop handles. The handles shall be free from cup, knots, heart center, rot, dote, brash, cross grain or spiral grain sloping more than 1 inch in 15 inches, or any other defect that may affect appearance or serviceability. Wood handles shall have a round cross-section with a minimum diameter of 1-1/8 inch, and be rounded on the hand end. The length shall be as specified with a tolerance of plus or minus 1/2 inch. The handle shall be sanded smooth and coated with a clear sealant for a smooth, uniform and glossy finish.

All metal components except the handles shall be made of corrosion resistant materials or shall be plated to resist corrosion. When inspected, any evidence of corrosion shall fail the lot.

The screw type mop holder shall hold the mophead between the head and bail by means of a wing nut on a screw pin. Figure 1 depicts the general configuration of this mophead.

When the head is fully open for insertion of a mophead there shall be a minimum space of 1-1/4 inches and shall have an inside width of 6-1/2 inches, plus or minus 1/4 inch. The steel wire from which the bails

are formed shall be a minimum of 0.23 inch in diameter. The attachment of the fixture to the ferrule and the ferrule to the handle shall be in such a manner that the head will not loosen or come apart from the handle without purposeful disassembly. Permanent attachment, such as welding or riveting is permitted.

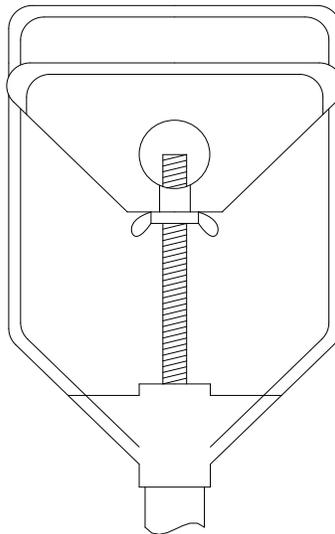


Figure 1.

The finished mop handle assemblies shall be free from defects affecting appearance, serviceability or durability. The handles shall be free from warps, burrs, slivers, or rough spots. The heads and bails shall be free from burrs or sharp edges and shall open and close smoothly without damage, and shall not injure the operator.

Unit of issue – EA (each).

**NSN: 7920-00-267-2967**

**BROOM, PUSH, VEGETABLE FIBER:** Shall be a push broom head, without handle, for use in sweeping rough surfaces such as warehouse floors and sidewalks, with the following characteristics:

The fiber shall be round rattan fiber, palm fiber, palmyra stalks, bass fiber, or mixture. The fibers shall be  $1/8 \pm 1/32$  inch in diameter.

The block shall be wood commercially utilized for this purpose. The wood shall be free from all defects and shall be smoothly finished.

The wire used for staple setting the fiber shall be corrosion resistant steel or steel plated to resist corrosion, and shall be a minimum of 0.0475 inch in diameter.

The wood shall be smoothly finished. The block shall have two holes for the handle, one on each side, equidistant from the ends. The handle holes shall be tapered to fit a 1-1/8 inch diameter handle that tapers to an end diameter of 3/4 inch in 3 inches. The block shall be produced from one or two pieces of wood. If the block is made from two pieces the pieces shall be securely glued together with glue that is not water soluble, with the seam smoothly sanded prior to coating. The block shall be coated with a permanent protective coating. The block shall be 16 inches long, 3-1/2 inches wide, 1-5/16 inches thick, all minimums. There shall be a minimum of 58 holes for the fiber, each a minimum of 5/8 inch deep. Each broom shall have a minimum of 21-1/2 ounces of fiber. The fiber shall be 6 inches, minimum, clear of the block. The finished broom shall be evenly cut. Each block shall be permanently marked with the National Stock Number (NSN) and the manufacturer's trade mark or name.

The finished brooms shall be clean and free from any defects that may affect the serviceability, durability, or appearance, and shall be of a quality equal to the manufacturer's best commercial product.

Unit of issue: EA (One (1) each).

**NSN: 7920-00-269-1259**

**BRUSH, PLATER'S HAND (SHOE HANDLE STYLE):** Shall be a corrosion resistant steel wire brush with shoe style curved handle with the following characteristics:

**Filler material:** The filler material shall be round cross-section, spring tempered, corrosion resistant steel wire, 0.013  $\pm$ 0.001 inch in diameter. The brush shall contain 1.6 ounce minimum of this filler..

**Block (handle):** The block shall be close grained, straight grained wood; or general purpose, impact resistant plastic.

**Construction:** The block shall be one piece. The filler shall be staple set and evenly spread across the brush face, approximately 4 x 16 rows. The brush shall be similar in appearance to Figure 1, and shall meet the dimensional requirements of Table I.

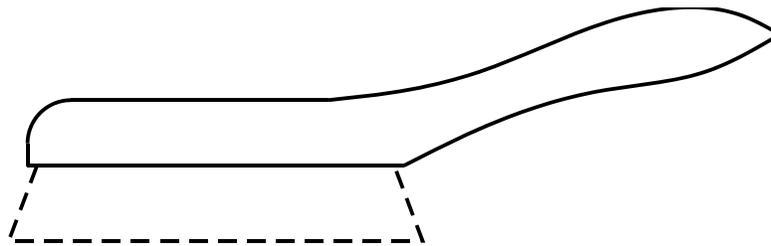


Figure 1.

Table I. Dimensional Requirements.

Overall length	10-1/2 $\pm$ 1 inch
Block thickness	5/8 inch minimum
Block width	1 $\pm$ 1/4 inch
Brush part length	4-3/4 inches min.
Length of exposed filler	1 inch minimum

**Workmanship:** The brush shall be clean and free of defects that may affect appearance or serviceability. The filler shall be evenly trimmed to form a flat surface.

Unit of issue: EA (One (1) each).

**NSN: 7920-00-291-5815**

**BRUSH, PLATER'S, HAND:** Shall be a carbon steel wire, curved handle plater's brush with the following characteristics:

**Filler material:** The filler materials shall be a high carbon, round, oil tempered brush wire. The filler shall be 0.014  $\pm$ 0.003 inch diameter wire, and the brush shall contain 1.1 ounce minimum.

**Block (handle):** The block shall be a close grained, straight grained wood, or a general purpose impact resistant plastic.

Construction: The blocks shall be one piece. The filler shall be staple set. The brushes shall be similar in appearance to Figure 1 and shall meet the dimensional requirements of Table 1. The filler shall be evenly spread across the brush face.

Table 1, Dimensional requirements.

Overall length	13-1/2 $\pm$ 1 inches
Block thickness	3/8 inch minimum
Block width	1-1/4 $\pm$ 1/4 inch
Brush part length	5 to 6 inches
Tuft holes	
Diameter	1/8 $\pm$ 1/16 inch
Number of holes	72 minimum
Number of rows	4
Length of exposed filler	1 inch minimum

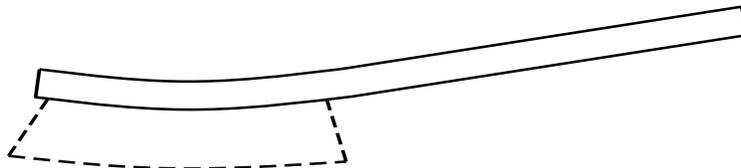


Figure 1

Workmanship: The brushes shall be clean and free of defects that may affect appearance or serviceability. The filler shall be evenly trimmed to form a flat surface.

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

PREPARATION FOR DELIVERY: The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of Issue – EA – (One (1) brush).

**NSN: 7920-00-291-8305**

BROOM, UPRIGHT (CORN): Shall be a 55 inch nominal (see below), corn fiber, upright, warehouse broom with wood handle with the following characteristics:

At the option of the manufacturer, the broom shall be composed of 100% broomcorn, or broomcorn and other vegetable fibers. When vegetable fibers are used, the broom body shall be composed of 66% minimum by weight broomcorn and 34% maximum by weight other vegetable fibers. Vegetable fibers shall be restricted to the under-work in an amount not to exceed 50% by weight of the handle corn and shoulder corn. The vegetable fiber shall not be used for outside or inside hurl.

The broomcorn fibers the brooms shall be any fine, medium or coarse gage of any natural growth color. Hurl broomcorn fibers shall be free from all defects except red, wavy, or stained fibers in medium degree. Fibers for inside or under-work shall be free from all defects except burly growth, large spikes, and severe degree burn. All fibers shall be free from seed with the greatest amount of seed fiber retained.

The vegetable fibers permitted shall be in the under-work only and shall be palmyra stalks, palmetto fiber, split rattan, prime quality piassava fiber, African bass, shredded palm leave, Navajo fiber, or New Mexico yucca. All fibers shall be free from seed with the greatest amount of seed fiber retained.

A light green broom dye shall be permitted.

The handle shall be produced from wood suitable for the purpose. The finished handle shall be straight enough that it will not allow a gap of more than 3/8 inch when the broom handle is rolled on a flat surface. The wood shall be straight grained, thoroughly seasoned, and free from defects in appearance and defects that might affect serviceability or durability. Handles made from Douglas fir or southern yellow pine shall be finished with a clear waterproof coating, other woods may be uncoated.

The broom twine may be natural or synthetic, and shall have a minimum breaking strength of 42 pounds. Synthetic twine shall have a melting point above 310°F. All twine shall be tight with no loose ends.

The broom wire shall be corrosion resistant steel. The diameter of the wire shall be 0.038 inch minimum.

The broom shall meet the dimensional requirements of Table I. The upper end (neck) of the broom shall be given a rundown finish caused by the wire being helically wound around the upper end (neck) of the broom and the wire secured to the handle. The wire shall be secured in such a manner that no sharp ends are exposed. The ends of the fibers shall form a flat, even, and dense working surface. The layers of fibers shall be secured to the handle with broom wire and fastened. The broom body shall be tied in place by stitching with the broom twine.

The weight of the broom shall be as specified in Table I. The weight per dozen shall be as measured on 12 randomly selected brooms.

The handle of the broom shall be permanently marked with the manufacture's name or recognized trademark.

Table I. Dimensional Requirements.

---

Neck Length, min.	2 inches
Broom body:	
Width, inches	12 to 14
Length, inches	17 to 18
Handle:	
Length	41 to 42 inches
Diameter, min.	1 inch
Extension into broom	4 inches min.
Ties (twine):	
Number per broom, min.	5
Distance of 1 <sup>st</sup> from neck	4-1/2 to 6 inches
Distance between ties	1/2 to 3/4 inch
Stitches per tie	9 to 16
Overall weight per dozen	35-1/2 lbs min.

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The finished broom shall be neat, clean, with no stains, discolorations, loose twine, loose wire, or unsecured fibers. The finished broom shall have a balanced appearance with the fibers distributed

equally from one side to the other and shall be neatly trimmed with a flat end to the broom body. The brooms shall be free of any defects that affect appearance or may affect serviceability or durability.

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**PREPARATION FOR DELIVERY:** The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of Issue – EA – (One (1) each).

**NSN: 7920-00-292-2360**

**BROOM, PUSH (WITHOUT HANDLE):** Shall be an 24 inch, heavy duty polypropylene filament floor sweeping brushes, with filler set in wood or plastic blocks, without handles with the following characteristics:

**Unit of Issue** – EA (each).

**Block:** The block shall be wood or plastic at the manufacturer's option. Wood blocks shall be fine textured, close and straight grained hardwood and shall have least one coat of clear protective finish. Plastic blocks shall be general purpose impact resistant plastic molding material commercially used for floor brushes. The block shall have rounded or beveled edges and ends. The block may be one or two piece construction. The two piece block shall be used only for wire drawn brushes. The two piece block shall be fastened together with rivets, or bolts using lock washers and nuts or washers and locknuts. Two ACME threaded holes shall be provided for handles in the top of each block, centered longitudinally. The holes shall be drilled at an angle of  $45^{\circ} \pm 10^{\circ}$  from the vertical through the block, or to a minimum depth of 1-1/16 inch. Each hole shall be threaded with an ACME thread having 5 threads per inch.

**Wire:** Drawing or staple wire used shall be wire normally used for floor brushes.

**Filler:** The brush filler shall be as specified. The weight of the trimmed filler material in each brush shall be as specified in Table I, and shall be the filler as removed from the end item. The synthetic filaments shall be feathered at the ends.

**Filament:** The brushes shall be made from polypropylene filament. The polypropylene filament shall be a level or crimped 50/50 ( $\pm 5\%$ ) mixture of two diameters. The cross-section of both sizes shall be a heavy X, the average diameter of the smaller filament shall be  $0.0180 \pm 0.0005$  inch, the average diameter of the larger filament shall be  $0.0280 \pm 0.0005$  inch. The color shall be the manufacturer's option.

**Construction:** The construction of the brushes shall conform to the requirements specified in Table I and shall appear similar to Figure 1. The brushes shall be either staple set or wire drawn. The tufts shall not loosen, break, or pull out of the brush when pulled by hand.

Table I, Physical Requirements.

Characteristic	Requirement
Block:	
Length, inches, minimum	23-3/4
Width, inches, minimum	2-7/16
Thickness:	
Wood, inch, minimum	15/16
Plastic, inch, minimum	7/8
Tuft holes:	
Number	228
Depth, inch, minimum	7/16
Filament:	
Length, clear of block, inches, minimum	3
Weight per brush, ounces, minimum	13-13/16

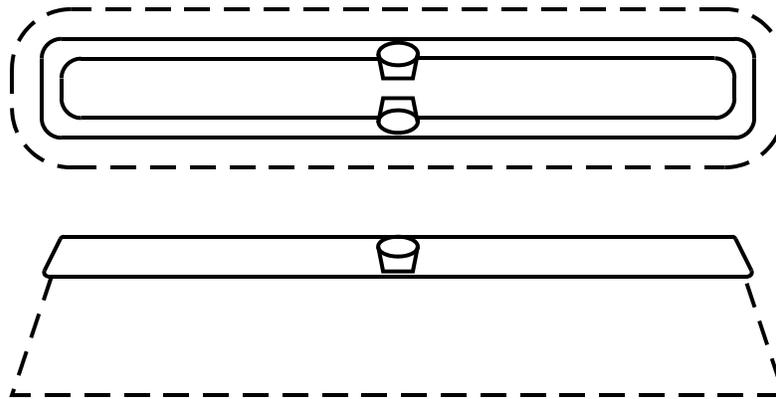


Figure 1.

**Trim:** The finished brush filler material shall be evenly and uniformly trimmed to conform to the dimensional requirements of the finished brushes.

**Marking:** Each block shall be clearly and permanently marked with the manufacturer's name or recognized trademark.

**Workmanship:** The brushes shall be free from defects which may affect their serviceability, durability or appearance. All surfaces shall be neatly constructed and finished and shall have no sharp edges. Wood blocks shall be free of splinters and of torn or loose grain. Plastic blocks shall be free from voids or channels. The filler material shall be free from foreign matter.

**NSN: 7920-00-292-2362**

**BROOM, PUSH (FLOOR, SWEEPING (WITHOUT HANDLE)):** Shall be a 36 inch, medium mixed filament floor sweeping brushes, with filler set in wood or plastic blocks, without handles with the following characteristics:

**Block:** The block shall be wood or plastic at the manufacturer's option. Wood blocks shall be fine textured, close and straight grained hardwood and shall have least one coat of clear protective finish. Plastic blocks shall be general purpose impact resistant plastic molding material commercially used for floor brushes. The block shall have rounded or beveled edges and ends. The block may be one or two piece construction. The two piece block shall be used only for wire drawn brushes. The two piece block shall be fastened together with rivets, or bolts using lock washers and nuts or washers and locknuts. Two ACME threaded holes shall be provided for handles in the top of each block, centered longitudinally. The

holes shall be drilled at an angle of  $45^\circ \pm 10^\circ$  from the vertical through the block, or to a minimum depth of 1-1/16 inch. Each hole shall be threaded with an ACME thread having 5 threads per inch.

Wire: Drawing or staple wire used shall be wire normally used for floor brushes.

Filler: The brush filler shall be as specified. The weight of the trimmed filler material in each brush shall be as specified in Table I, and shall be the filler as removed from the end item. The synthetic filaments shall be feathered at the ends.

Filament: The brushes shall be made from a 50/50 ( $\pm 5\%$ ) mixture of fine natural fiber, or fine polyester filament, and tampico fiber or medium polypropylene filament. Fine polyester filament shall be a level or crimped polyester filament with a round cross-section and an average diameter of  $0.0140 \pm 0.0005$  inch. Medium polypropylene filament shall be a level or crimped polypropylene filament with a round cross-section and an average diameter of  $0.0140 \pm 0.0005$  inch. Tampico fiber shall be of natural or black dyed color. The color of the synthetic filler shall be the manufacturer's option.

Construction: The construction of the brushes shall conform to the requirements specified in Table I and shall appear similar to Figure 1. The brushes shall be either staple set or wire drawn. The tufts shall not loosen, break, or pull out of the brush when pulled by hand.

Table I, Physical requirements.	
Characteristic	Requirement
Block:	
Length, inches, minimum	35-3/4
Width, inches, minimum	2-7/16
Thickness:	
Wood, inch, minimum	15/16
Plastic, inch, minimum	7/8
Tuft holes:	
Number	416
Depth, inch, minimum	5/16
Filament:	
Length, clear of block, inches, minimum	3
Weight per brush, ounces, minimum	19

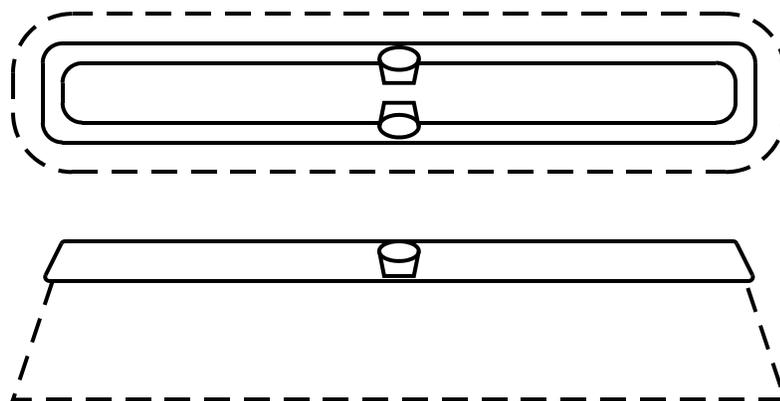


Figure 1.

Trim: The finished brush filler material shall be evenly and uniformly trimmed to conform to the dimensional requirements of the finished brushes.

Brace: The brushes shall be provided with a brace to support the handle. The brace design shall be at the manufacturer's option, shall allow use of either hole in the block, shall be usable with any handle that can be used with the brush, shall be received complete and ready for assembly without any modification necessary, and shall be initially assembled and allow movement or replacement of the handle with basic hand tools only. The brace shall extend diagonally from the each end of the block to the handle as depicted in Figure 2. The brace shall extend from points a minimum of 7.5 inches from the handle centerline towards each end, to a minimum of 5 inches up the handle from the block.

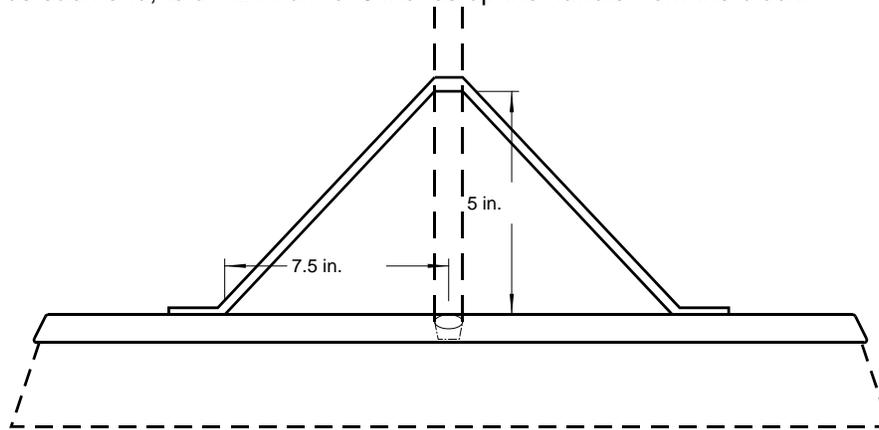


Figure 2.

Marking: Each block shall be clearly and permanently marked with the manufacturer's name or recognized trademark.

Workmanship: The brushes shall be free from defects which may affect their serviceability, durability or appearance. All surfaces shall be neatly constructed and finished and shall have no sharp edges. Wood blocks shall be free of splinters and of torn or loose grain. Plastic blocks shall be free from voids or channels. The filler material shall be free from foreign matter.

Unit of Issue – EA (each).

**NSN: 7920-00-292-2363**

**BROOM, PUSH (WITHOUT HANDLE):** Shall be a 30 inch, fine natural fiber or fine polyester filament floor sweeping broom, with the filler set in wood or plastic blocks, without handles, with the following characteristics:

**Block:** The block shall be wood or plastic at the manufacturer's option. Wood blocks shall be fine textured, close and straight grained hardwood and shall have at least one coat of clear protective finish. Plastic blocks shall be general purpose impact resistant plastic molding material commercially used for floor brushes. The block shall have rounded or beveled edges and ends. The block may be one or two-piece construction. The two-piece block shall be used only for wire drawn brushes. The two-piece block shall be fastened together with rivets, or bolts using lock washers and nuts or washers and locknuts. Two ACME threaded holes shall be provided for handles in the top of each block, centered longitudinally. The holes shall be drilled at an angle of  $45^{\circ} \pm 10^{\circ}$  from the vertical through the block, or to a minimum depth of 1-1/16 inch. Each hole shall be threaded with an ACME thread having 5 threads per inch.

**Wire:** Drawing or staple wire used shall be wire normally used for floor brushes.

**Filler:** The brush filler shall be as specified. The weight of the trimmed filler material in each brush shall be as specified in Table I, and shall be the filler as removed from the end item. The synthetic filaments shall be feathered at the ends.

Filament: The brushes shall be made from fine natural fiber or fine polyester filament at the option of the contractor. The fine natural fiber shall be either 100 percent horsetail hair or a 50/50 ( $\pm 5\%$ ) mixture of horsetail hair and a vegetable fiber such as cocoa fiber, at the manufacturer's option. Horsetail hair used shall be extra stiff, natural horsetail hair, cleaned and sterilized.

Construction: The construction of the brushes shall conform to the requirements specified in Table I and shall appear similar to Figure 1. The brushes shall be either staple set or wire drawn. The tufts shall not loosen, break, or pull out of the brush when pulled by hand.

Table I, Physical Requirements.	
Characteristic	Requirement
Block:	
Length, inches, minimum	29-3/4
Width, inches, minimum	2-7/16
Thickness:	
Wood, inch, minimum	15/16
Plastic, inch, minimum	7/8
Tuft holes:	
Number	346
Depth, inch, minimum	5/16
Filament:	
Length, clear of block, inches, minimum	3
Weight per brush, ounces, minimum	16-9/32

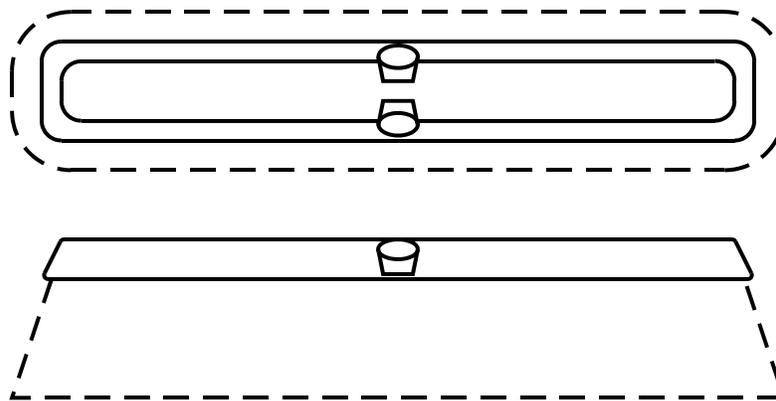


Figure 1

Trim: The finished brush filler material shall be evenly and uniformly trimmed to conform to the dimensional requirements of the finished brushes.

Brace: The brushes shall be provided with a brace to support the handle. The brace design shall be at the manufacturer's option, shall allow use of either hole in the block, shall be usable with any handle that can be used with the brush, shall be received complete and ready for assembly without any modification necessary, and shall be initially assembled and allow movement or replacement of the handle with basic hand tools only. The brace shall extend diagonally from the each end of the block to the handle as depicted in Figure 2. The brace shall extend from points a minimum of 8 inches from the handle centerline towards each end, to a minimum of 8 inches up the handle from the block.

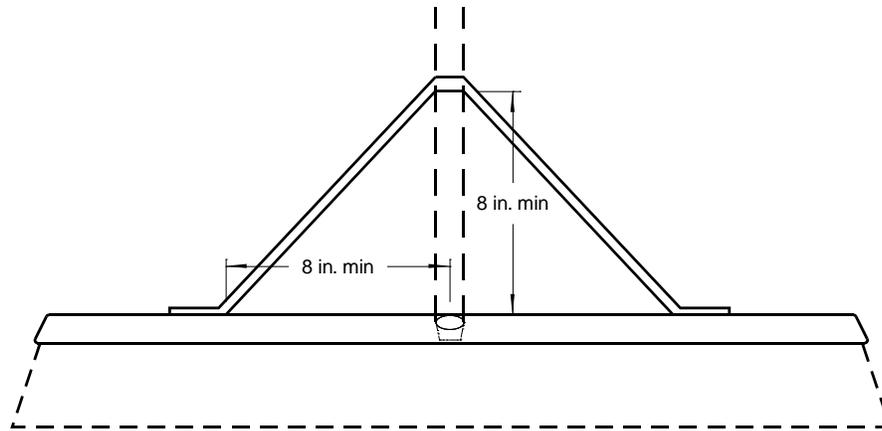


Figure 2

Marking: Each block shall be clearly and permanently marked with the manufacturer's name or recognized trademark.

Workmanship: The brushes shall be free from defects which may affect their serviceability, durability or appearance. All surfaces shall be neatly constructed and finished and shall have no sharp edges. Wood blocks shall be free of splinters and of torn or loose grain. Plastic blocks shall be free from voids or channels. The filler material shall be free from foreign matter.

Unit of issue – EA (One (1) each).

**NSN: 7920-00-292-2367**

**BROOM, PUSH (WITHOUT HANDLE):** Shall be an 18 inch, medium mixed filament floor sweeping brush, with filler set in wood or plastic blocks, without handles, with the following characteristics:

**Block:** The block shall be wood or plastic at the manufacturer's option. Wood blocks shall be fine textured, close and straight grained hardwood and shall have least one coat of clear protective finish. Plastic blocks shall be general purpose impact resistant plastic molding material commercially used for floor brushes. The block shall have rounded or beveled edges and ends. The block may be one or two piece construction. The two piece block shall be used only for wire drawn brushes. The two piece block shall be fastened together with rivets, or bolts using lock washers and nuts or washers and locknuts. Two ACME threaded holes shall be provided for handles in the top of each block, centered longitudinally. The holes shall be drilled at an angle of  $45^{\circ} \pm 10^{\circ}$  from the vertical through the block, or to a minimum depth of 1-1/16 inch. Each hole shall be threaded with an ACME thread having 5 threads per inch.

**Wire:** Drawing or staple wire used shall be wire normally used for floor brushes.

**Filler:** The brush filler shall be as specified. The weight of the trimmed filler material in each brush shall be as specified in Table I, and shall be the filler as removed from the end item. The synthetic filaments shall be feathered at the ends.

**Filament:** The brushes shall be made from a 50/50 ( $\pm 5\%$ ) mixture of fine natural fiber, or fine polyester filament, and tampico fiber or medium polypropylene filament. Fine polyester filament shall be a level or crimped polyester filament with a round cross-section and an average diameter of  $0.0140 \pm 0.0005$  inch. Medium polypropylene filament shall be a level or crimped polypropylene filament with a round cross-section and an average diameter of  $0.0140 \pm 0.0005$  inch. Tampico fiber shall be of natural or black dyed color. The color of the synthetic filler shall be the manufacturer's option.

Construction: The construction of the brushes shall conform to the requirements specified in Table I and shall appear similar to Figure 1. The brushes shall be either staple set or wire drawn. The tufts shall not loosen, break, or pull out of the brush when pulled by hand.

Table I, Physical Requirements.	
Characteristic	Requirement
Block:	
Length, inches, minimum	17-3/4
Width, inches, minimum	2-7/16
Thickness:	
Wood, inch, minimum	15/16
Plastic, inch, minimum	7/8
Tuft holes:	
Number	203
Depth, inch, minimum	5/16
Filament:	
Length, clear of block, inches, minimum	3
Weight per brush, ounces, minimum	9-3/4

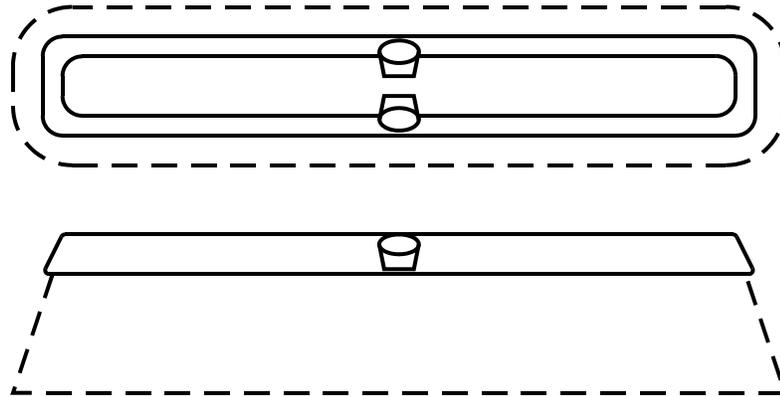


Figure 1.

Trim: The finished brush filler material shall be evenly and uniformly trimmed to conform to the dimensional requirements of the finished brushes.

Marking: Each block shall be clearly and permanently marked with the manufacturer's name or recognized trademark.

Workmanship: The brushes shall be free from defects which may affect their serviceability, durability or appearance. All surfaces shall be neatly constructed and finished and shall have no sharp edges. Wood blocks shall be free of splinters and of torn or loose grain. Plastic blocks shall be free from voids or channels. The filler material shall be free from foreign matter.

Unit of issue – EA (One (1) each).

**NSN: 7920-00-292-4375**

BROOM, UPRIGHT (CORN): Shall be a 52 inch (see below), corn fiber, upright, warehouse broom with wood handle, with the following characteristics:

At the option of the manufacturer, the broom shall be composed of 100% broomcorn, or broomcorn and other vegetable fibers. When vegetable fibers are used, the broom body shall be composed of 66% minimum by weight broomcorn and 34% maximum by weight other vegetable fibers. Vegetable fibers shall be restricted to the under-work in an amount not to exceed 50% by weight of the handle corn and shoulder corn. The vegetable fiber shall not be used for outside or inside hurl.

The broomcorn fibers the brooms shall be any fine, medium or coarse gage of any natural growth color. Hurl broomcorn fibers shall be free from all defects except red, wavy, or stained fibers in medium degree. Fibers for inside or under-work shall be free from all defects except burly growth, large spikes, and severe degree burn. All fibers shall be free from seed with the greatest amount of seed fiber retained.

The vegetable fibers permitted shall be in the under-work only and shall be palmyra stalks, palmetto fiber, split rattan, prime quality piassava fiber, African bass, shredded palm leave, Navajo fiber, or New Mexico yucca. All fibers shall be free from seed with the greatest amount of seed fiber retained.

A light green broom dye shall be permitted.

The handle shall be produced from wood suitable for the purpose. The finished handle shall be straight enough that it will not allow a gap of more than 3/8 inch when the broom handle is rolled on a flat surface. The wood shall be straight grained, thoroughly seasoned, and free from defects in appearance and defects that might affect serviceability or durability. Handles made from Douglas fir or southern yellow pine shall be finished with a clear waterproof coating, other woods may be uncoated. The handles may be painted at the manufacturer's option.

The broom twine may be natural or synthetic, and shall have a minimum breaking strength of 42 pounds. Synthetic twine shall have a melting point above 310°F. All twine shall be tight with no loose ends.

The broom wire shall be corrosion resistant steel. The diameter of the wire shall be 0.038 inch minimum.

The broom shall meet the dimensional requirements of Table I. The upper end (neck) of the broom shall be given a rundown finish caused by the wire being helically wound around the upper end (neck) of the broom and the wire secured to the handle. The wire shall be secured in such a manner that no sharp ends are exposed. The ends of the fibers shall form a flat, even, and dense working surface. The layers of fibers shall be secured to the handle with broom wire and fastened. The broom body shall be tied in place by stitching with the broom twine.

The weight of the broom shall be as specified in Table I. The weight per dozen shall be as measured on 12 randomly selected brooms.

The handle of the broom shall be permanently marked with the manufacture's name or recognized trademark.

Table I, Dimensional Requirements.

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Neck Length, min.:	1-1/2 inches
Broom body:	
Width, inches	11 to 12-1/2
Length, inches	15 to 16
Handle:	
Length	41 to 42 inches

Diameter, min.	7/8 inch
Extension into broom	4 inches min.
Ties (twine):	
Number per broom, min.	4
Distance of 1 <sup>st</sup> from neck	4 to 4-3/4 inches
Distance between ties	½ to ¾ inch
Stitches per tie	8 to 12
Overall weight per dozen	27-1/2 lbs min.

The finished broom shall be neat, clean, with no stains, discolorations, loose twine, loose wire, or unsecured fibers. The finished broom shall have a balanced appearance with the fibers distributed equally from one side to the other and shall be neatly trimmed with a flat end to the broom body. The brooms shall be free of any defects that affect appearance or may affect serviceability or durability.

Unit of issue – EA (each).

**NSN: 7920-00-292-9204**

CLOTH, CLEANING (NON-WOVEN): Shall be heavy duty, rectangular, 150 square inch minimum, non-woven wiping cloths, with the following characteristics:

The cloths shall consist of non-woven material adhered into a planar assembly meeting the characteristics of Table I. The finished cloths shall be suitable for use as a cloth for wiping up grease and liquid spills.

Table I, Physical Characteristics.

Characteristic		Test Method
Size (minimum) <sup>\1</sup>	150 sq. in.	Visual
Tensile strength (minimum)	2.5 lb/in	TAPPI T494
Dry Weight (minimum)	2.14 oz/sq yd	TAPPI T410
Water Absorbency Capacity: (% by weight, minimum)	400	Absorbency paragraph
Water Absorbency Rate: (maximum)	10 sec	TAPPI T432
Oil Absorbency Capacity: (% by weight, minimum)	350	Absorbency paragraph
Oil Absorbency Rate (minimum)	35 sec	TAPPI T432 <sup>\2</sup>

\1 The width of the cloth shall be 10 inches minimum.

\2 Use light mineral oil, viscosity 80-90 SU (Saybolt Universal) instead of water.

Absorbency:

The cloths shall have the absorbency capacity required by Table I. The test for this shall be as follows:

Cut specimens (10 cm x 10 cm is recommended) and weight to nearest 0.1 g. Entirely immerse each sample in distilled water at 25 degrees Centigrade for 3 minutes without movement. Remove by lifting at one corner until entire specimen is clear of water, allowing excess water to drain off for 60 seconds. Place each in a tared weighing bottle and reweigh. Calculate the percent absorption to the nearest 1 percent as follows:

$$\text{Percent absorption} = \frac{(\text{Wet weight} - \text{dry weight})}{\text{dry weight}} \times 100$$

Same as above using white mineral oil, viscosity 80-90 SU (Saybolt Universal), in lieu of water. Drain time shall be 20 minutes.

TAPPI documents are available from TAPPI, 15 Technology Parkway South, Norcross, GA 30092, (404) 446-1400.

Unit of issue – MX (one-thousand (1,000) cloths in a container).

**NSN: 7920-00-519-1912**

TOWEL, MACHINERY WIPING: Non-woven towels, 338 square inches minimum in area with no edge dimension less than 13 inches in length. The unit of issue shall be a box of 200 towels. The towel shall meet the following requirements:

Weight (minimum): 1.75 oz/sq yd (see Weight, below)  
Water absorbency (minimum): 500 percent (see Water, below)  
Oil absorbency (minimum): 500 percent (see Oil, below)

Construction: The towels shall be of a bonded cellulose, cellulose-synthetic, or synthetic composition. The towels shall be consistent in size, non-abrasive, and without any foreign material; the individual sheets shall not contain any holes, tears, or seams.

Weight: The weight of the towels shall be determined in accordance with Federal Standard 191, Method 5041.

Water: Each test specimen, measuring 4 inches by 4 inches, shall be weighed individually by analytical balance; the weight shall be recorded to 0.01 grams. Each specimen shall then be immersed in distilled water at 73 degrees Fahrenheit (plus or minus 1 degree Fahrenheit) for 2 minutes, and hung by one corner in an air tight vessel for 30 minutes. Each specimen shall then be weighed in a tared container. With  $W_i$  representing the weight of the specimen prior to immersion and  $W_f$  representing the final weight of the specimen after immersion, the percentage of water absorbed shall be calculated as follows:

$$\text{Percent Water Absorbed} = [(W_f - W_i)/W_i] \times 100$$

Oil: Each test specimen, measuring 4 inches by 4 inches, shall be weighed individually by analytical balance, the weight shall be recorded to 0.01 grams. Each specimen shall then be immersed in white mineral oil at 73 degrees Fahrenheit (plus or minus 1 degree Fahrenheit) for 15 minutes, and hung by one corner for 1 minute. (The white mineral oil used for this test shall have a Saybolt viscosity of 300 to 330 seconds when tested at 100 degrees Fahrenheit. The recommended oils include Drakeol 32, Penreco Co. (Division of Penns Oil); Primol 325, Exxon Oil Co.; and Witco 300, Conneborn Div. of Witco Chemical.) Each specimen shall then be weighed in a tared container. With  $W_i$  representing the weight of the specimen prior to immersion and  $W_f$  representing the final weight of the specimen after immersion, the percentage of oil absorbed shall be calculated as follows:

$$\text{Percent Oil Absorbed} = [(W_f - W_i)/W_i] \times 100$$

PACKAGING/PACKING: Two-hundred (200) towels shall be packed in a close-fitting dispenser type corrugated fiberboard box, minimum burst strength 200 psi (minimum edge crush strength 32 lb per inch width). The design of the box and arrangement of the towels within shall provide a system which will allow the easy removal of individual towels and protect the remaining towels from contamination and loss. The pack shall be in compliance with the Uniform Freight Classification and the National Motor Freight Classification.

Unit of Issue – BX (One (1) box containing two-hundred (200) wipers).

**NSN 7920-00-532-8543**

TOWEL, MACHINERY WIPING: Non-woven towels with a minimum surface area of 165 square inches and a minimum side dimension of 9-1/2 inches. The unit of issue shall be a box of 400 towels. The towel shall meet the following requirements:

Weight (minimum)	1.75 oz/sq yd (see Weight, below)
Water absorbency (minimum)	500 percent (see Water, below)
Oil absorbency (minimum)	500 percent (see Oil, below)

Construction: The towels shall be of a bonded cellulose, cellulose-synthetic, or synthetic composition. The towels shall be consistent in size, non-abrasive, and without any foreign material; the individual sheets shall not contain any holes, tears, or seams.

Weight: The weight of the towels shall be determined in accordance with Federal Standard 191, Method 5041.

Water: Each test specimen, measuring 4 inches by 4 inches, shall be weighed individually by analytical balance; the weight shall be recorded to 0.01 grams. Each specimen shall then be immersed in distilled water at 73 degrees Fahrenheit (plus or minus 1 degree Fahrenheit) for 2 minutes, and hung by one corner in an air tight vessel for 30 minutes. Each specimen shall then be weighed in a tared container. With  $W_i$  representing the weight of the specimen prior to immersion and  $W_f$  representing the final weight of the specimen after immersion, the percentage of water absorbed shall be calculated as follows:

$$\text{Percent Water Absorbed} = [(W_f - W_i)/W_i] \times 100$$

Oil: Each test specimen, measuring 4 inches by 4 inches, shall be weighed individually by analytical balance, the weight shall be recorded to 0.01 grams. Each specimen shall then be immersed in white mineral oil at 73 degrees Fahrenheit (plus or minus 1 degree Fahrenheit) for 15 minutes, and hung by one corner for 1 minute. (The white mineral oil used for this test shall have a Saybolt viscosity of 300 to 330 seconds when tested at 100 degrees Fahrenheit. The recommended oils include Drakeol 32, Penreco Co. (Division of Penns Oil); Primol 325, Exxon Oil Co.; and Witco 300, Conneborn Div. of Witco Chemical.) Each specimen shall then be weighed in a tared container. With  $W_i$  representing the weight of the specimen prior to immersion and  $W_f$  representing the final weight of the specimen after immersion, the percentage of oil absorbed shall be calculated as follows:

$$\text{Percent Oil Absorbed} = [(W_f - W_i)/W_i] \times 100$$

PACKAGING/PACKING: Four-hundred (400) towels shall be packed in a close-fitting dispenser type corrugated fiberboard box, minimum burst strength 200 psi (minimum edge crush strength 32 lb per inch width). The design of the box and arrangement of the towels within shall provide a system which will allow the easy removal of individual towels and protect the remaining towels from contamination and loss. The pack shall be in compliance with the Uniform Freight Classification and the National Motor Freight Classification.

Unit of Issue – BX (One (1) box containing four-hundred (400) wipers).

**NSN: 7920-00-543-6492**

TOWEL, PAPER (INDUSTRIAL WIPING): The towels shall have a minimum 36 cm (approx. 14-1/2 inches) side length with an overall minimum area of 1580 cm<sup>2</sup> (approx. 245 sq.in), light duty, nonwoven industrial strength paper towels with the following characteristics:

The towels shall be 100% paper with 40 to 100% recovered fiber, including a minimum of 40% postconsumer fiber as specified by the EPA Guidelines For Federal Procurement of Paper and Paper

Products Containing Recovered Materials (40 CFR 247) and the EPA Paper Products Materials Advisory Notice (Federal Register, Vol. 61, No. 104, May 29, 1996).

The towels shall be of single or multi-ply construction meeting the requirements of Table I. The towels shall have creped or embossed surfaces to facilitate wiping utility.

Table I, Physical Characteristics.

Characteristic		TAPPI Test Method
Grammage (g/m <sup>2</sup> , minimum):	17.9	T410
Tensile strength:		
Dry (N/m, minimum)	.000066	T494
Wet (N/m, minimum)	.000016	T456 <sup>2</sup>
Absorption rate (sec., max.) <sup>1</sup> :		
water -	10	T432
oil -	20	T432
Total Absorption, % of dry weight (min):		
Water -	275	Para. 3.4.1
Oil -	150	Para. 3.4.2

<sup>1</sup> Absorbency. The cloths shall have the absorbency capacity required by Table I. The test for this shall be as follows:

Water: Cut specimens (10 cm x 10 cm is recommended) and weight to nearest 0.1 g. Entirely immerse each sample in distilled water at 25°C for 3 minutes without movement. Remove by lifting at one corner until entire specimen is clear of the water, allow excess water to drain off for 60 seconds. Place each in a tared weighing bottle and reweigh. Calculate the percent absorption to the nearest 1 percent as follows:

$$\text{Percent absorption} = [(\text{Wet weight} - \text{dry weight}) / \text{dry weight}] \times 100$$

Oil: Same as same as water except using light mineral oil, viscosity 80-90 SU (Saybolt Universal) instead of water. Drain time shall be 20 minutes.

<sup>2</sup> The samples shall be conditioned in an oven at 105°F for 4 minutes prior to testing.

The towels shall be free from holes, tears, dirt, spots, ragged or uneven edges, or any other defects that affect serviceability.

Towels described by this description are intended for general cleaning, polishing and wiping, on dry, wet, and oily surfaces.

TAPPI documents are available from TAPPI, 15 Technology Parkway South, Norcross, GA 30092, (404) 446-1400.

Unit of Issue – BX – (2,520 towels (18 packages of 140 towels each)).

**NSN: 7920-00-559-8463**

**SPONGE, REGENERATED CELLULOSE:** Shall be rectangular, 3-5/8 inch wide X 5-3/4 inch long X 1-3/4 inch thick, uncompressed, green colored, regenerated cellulose sponges with the following characteristics:

In addition to the material requirements below, the sponges shall include such compounding ingredients as necessary to produce a soft pliable sponge when wet.

The cellulose sponge shall be made of regenerated cellulose. The sponge shall be soft and pliable, and shall resist any degradation when exposed to normal household cleaning products. The sponges shall have an absorption of 1500% minimum. The percentage absorption shall be determined when tested and calculated as described below:

The absorption of the sponges shall be determined as follows: The sample sponge shall be washed free of contaminants by a minimum of 5 cycles of being immersed in distilled water and hand squeezed as dry as possible. [Conditioning of the samples at  $72 \pm 2^{\circ}\text{C}$  and  $50 \pm 4\%$  relative humidity for 24 hours shall be required only in instance of dispute of absorption compliance.] The samples shall be weighed to the nearest 10 mg, this value shall be designated W1. The samples shall then be immersed in distilled water and squeezed until all the air has been expelled. Using a non-squeezing hanging device, remove the sponge from the water and allow to drain for 30 seconds. Place on tared holder and reweigh, this value shall be designated W2. Calculate the percent absorption as follows:

$$\text{Percent absorption} = [(W2-W1)/W1] \times 100$$

Submersion in boiling water for 2 hours shall not change the feel, flexibility, or color of the sponge.

The regenerated cellulose sponges shall have tensile strength of 25 psi minimum. The test shall only be performed on uncut sponge batches. The sample(s) to be tested shall be thoroughly wetted and hand squeezed as dry as possible. Samples shall be cut 2 inches wide, 2 inches long, and 1 inch thick. The tensile strength shall be determined by Method 5100 of FED-STD-191, except that the distance between the jaws shall be 1 inch. The breaking force in pounds divided by the cross-section area in square inches equals the tensile strength in psi.

The sponge shall have pores with an average less than  $23/32$  of an inch in diameter. The average diameter shall be measured by randomly selecting a bounded area on the surface of the sponge, such as a box  $1-1/4$  inch by  $1-1/4$  inch drawn on the surface of the sponge. The whole pores within the box shall be counted and measured, and the average diameter calculated.

The dimensions specified for the length and widths shall be minimums, the tolerance for the specified thickness shall be  $-0$  and  $+0.2$  inch.

The color shall be a commonly accepted shade. The color shall not bleed when exposed to boiling water for 5 minutes.

Sponges shall conform to the quality and grade of product established by this item description. Sponges shall contain no ingredient which may be harmful to the skin. Sponges shall be free from defects which may affect their durability, serviceability and appearance. The sponges shall be soft and pliable when wet, sent free, uniform in color, and ready to use without further preparation.

Testing to establish conformance with the requirements of this description shall be performed on the initial lot of material supplied to the government and thereafter when manufacturing methods, materials or supply sources change.

Unit of Issue: BX (sixty (60) sponges per box).

**NSN: 7920-00-559-8464**

**SPONGE, REGENERATED CELLULOSE:** Shall be rectangular,  $3-5/8$  inch wide X  $5-3/4$  inch long X  $1-3/4$  inch thick, uncompressed, yellow colored, regenerated cellulose sponges with the following characteristics:

In addition to the material requirements below, the sponges shall include such compounding ingredients as necessary to produce a soft pliable sponge when wet.

The cellulose sponge shall be made of regenerated cellulose. The sponge shall be soft and pliable, and shall resist any degradation when exposed to normal household cleaning products. The sponges shall have an absorption of 1500% minimum. The percentage absorption shall be determined when tested and calculated as described below.

The absorption of the sponges shall be determined as follows: The sample sponge be washed free of contaminants by a minimum of 5 cycles of being immersed in distilled water and hand squeezed as dry as possible. [Conditioning of the samples at  $72 \pm 2^{\circ}\text{C}$  and  $50 \pm 4\%$  relative humidity for 24 hours shall be required only in instance of dispute of absorption compliance.] The samples shall be weighed to the nearest 10 mg, this value shall be designated W1. The samples shall then be immersed in distilled water and squeezed until all the air has been expelled. Using a non-squeezing hanging device, remove the sponge from the water and allow to drain for 30 seconds. Place on tared holder and reweigh, this value shall be designated W2. Calculate the percent absorption as follows:

$$\text{Percent absorption} = [(W2-W1)/W1] \times 100$$

Submersion in boiling water for 2 hours shall not change the feel, flexibility, or color of the sponge.

The regenerated cellulose sponges shall have tensile strength of 25 psi minimum. The test shall only be performed on uncut sponge batches. The sample(s) to be tested shall be thoroughly wetted and hand squeezed as dry as possible. Samples shall be cut 2 inches wide, 2 inches long, and 1 inch thick. The tensile strength shall be determined by Method 5100 of FED-STD-191, except that the distance between the jaws shall be 1 inch. The breaking force in pounds divided by the cross-section area in square inches equals the tensile strength in psi.

The sponge shall have pores with an average less than  $23/32$  of an inch in diameter. The average diameter shall be measured by randomly selecting a bounded area on the surface of the sponge, such as a box  $1-1/4$  inch by  $1-1/4$  inch drawn on the surface of the sponge. The whole pores within the box shall be counted and measured, and the average diameter calculated.

The dimensions specified for the length and widths shall be minimums, the tolerance for the specified thickness shall be  $-0$  and  $+0.2$  inch.

The color shall be a commonly accepted shade. The color shall not bleed when exposed to boiling water for 5 minutes.

Sponges shall conform to the quality and grade of product established by this item description. Sponges shall contain no ingredient which may be harmful to the skin. Sponges shall be free from defects which may affect their durability, serviceability and appearance. The sponges shall be soft and pliable when wet, sent free, uniform in color, and ready to use without further preparation.

Testing to establish conformance with the requirements of this description shall be performed on the initial lot of material supplied to the government and thereafter when manufacturing methods, materials or supply sources change.

Unit of issue: BX (sixty (60) sponges per box).

**NSN: 7920-00-577-4744**

**SQUEEGE, WINDOW:** Shall be 10 inch, double blade, two piece brass or stainless steel frame window squeegees without handles with the following characteristics:

**Screws, bolts, and nuts:** Screws, bolts, and nuts shall be made of corrosion resistant materials or shall be made of steel which is plated to resist corrosion.

**Frames and channels:** The metal channels and metal strips of the squeegees shall be made of brass or stainless steel and shall conform to the dimensional requirements of Figure 1.

Rubber blade material: The rubber blades shall be made of natural or synthetic rubber containing no coloring agent which will stain, bleed, or run. The working (exposed) edge shall be straight, free from dirt inclusions, cutter marks, or serrations. The blade material shall withstand immersion in  $170 \pm 5^\circ\text{F}$  ( $77 \pm 3^\circ\text{C}$ ) water for 15 minutes without any evidence of bleeding of the color or deterioration of the material. The blade shall not show deterioration or evidence of cracking when, after being exposed to the accelerated aging test of ASTM D 573 at  $160 \pm 2^\circ\text{F}$  ( $71 \pm 1^\circ\text{C}$ ) for 94 hours, and it is bent around a rod 1/2 inch in diameter to an angle of  $90^\circ$ , both directions, for 25 cycles.

Construction: The metal frame squeegees shall be as specified by figure 1. The metal frame squeegee shall be equipped with a socket tapered for insertion of a wooden handle (see paragraph below). A complete unit shall consist of the metal frame, socket, and blade. The blades of the squeegees shall extend beyond the ends of the metal strips no less than 1/8 inch at each end. The double blade, two-piece frame window squeegees shall have a 2-ply rubber blade secured in between the two pieces of the metal strip frame by not less than 6 equally spaced screws or bolts of not less than 1/8 inch diameter. Each of the blades shall be 5/64 inch thick minimum and of the minimum length specified by the size, the metal strips shall each be 17 gauge (0.0453 inch) minimum. The bolts or screws shall extend through the first strip, both rubber blades, and the other metal strip, and shall not protrude more than 1/8 inch beyond the nuts used or the metal strip if no nuts are used. The handle socket shall be securely attached to the metal strips. The dimensions of the squeegees shall be as specified by Figure 1

Handle sockets: Handle sockets for the squeegees shall be made of brass or stainless steel and shall conform to the dimensions specified by Figure 1. The socket handle shall be tapered to accept the tapered end of a handle conforming to Figure 2.

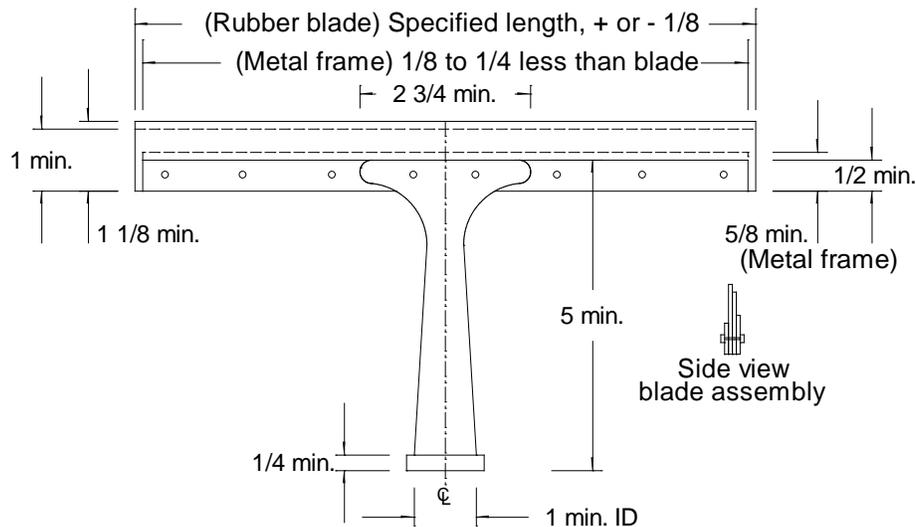


Figure 1.  
(All dimensions are in inches.)

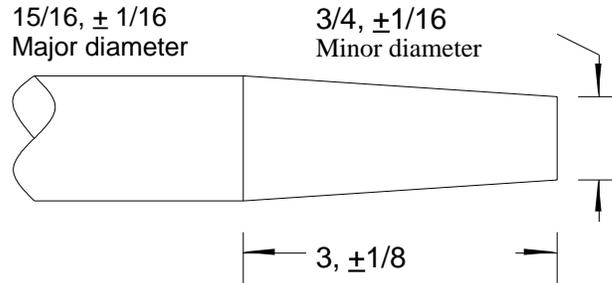


Figure 2.  
(All dimensions are in inches.)

Performance requirements: There shall be no visible evidence of surface water when tested by wiping 5 times over a wet piece of flat glass.

Workmanship: The finished squeegees shall be straight, clean, well made, and free from any defects which may affect appearance or serviceability.

Unit of issue – EA (each).

**NSN: 7920-00-577-4745**

**SQUEEGE, WINDOW:** Shall be 12 inch, double blade, two piece brass or stainless steel frame window squeegees without handles with the following characteristics:

**Screws, bolts, and nuts:** Screws, bolts, and nuts shall be made of corrosion resistant materials or shall be made of steel which is plated to resist corrosion.

**Frames and channels:** The metal channels and metal strips of the squeegees shall be made of brass or stainless steel and shall conform to the dimensional requirements of Figure 1.

**Rubber blade material:** The rubber blades shall be made of natural or synthetic rubber containing no coloring agent which will stain, bleed, or run. The working (exposed) edge shall be straight, free from dirt inclusions, cutter marks, or serrations. The blade material shall withstand immersion in  $170 \pm 5^{\circ}\text{F}$  ( $77 \pm 3^{\circ}\text{C}$ ) water for 15 minutes without any evidence of bleeding of the color or deterioration of the material. The blade shall not show deterioration or evidence of cracking when, after being exposed to the accelerated aging test of ASTM D 573 at  $160 \pm 2^{\circ}\text{F}$  ( $71 \pm 1^{\circ}\text{C}$ ) for 94 hours, and it is bent around a rod 1/2 inch in diameter to an angle of  $90^{\circ}$ , both directions, for 25 cycles.

**Construction:** The metal frame squeegees shall be as specified by figure 1. The metal frame squeegee shall be equipped with a socket tapered for insertion of a wooden handle (see paragraph below). A complete unit shall consist of the metal frame, socket, and blade. The blades of the squeegees shall extend beyond the ends of the metal strips no less than 1/8 inch at each end. The double blade, two-piece frame window squeegees shall have a 2-ply rubber blade secured in between the two pieces of the metal strip frame by not less than 6 equally spaced screws or bolts of not less than 1/8 inch diameter. Each of the blades shall be 5/64 inch thick minimum and of the minimum length specified by the size, the metal strips shall each be 17 gauge (0.0453 inch) minimum. The bolts or screws shall extend through the first strip, both rubber blades, and the other metal strip, and shall not protrude more than 1/8 inch beyond the nuts used or the metal strip if no nuts are used. The handle socket shall be securely attached to the metal strips. The dimensions of the squeegees shall be as specified by figure 1

Handle sockets: Handle sockets for the squeegees shall be made of brass or stainless steel and shall conform to the dimensions specified by Figure 1. The socket handle shall be tapered to accept the tapered end of a handle conforming to Figure 2.

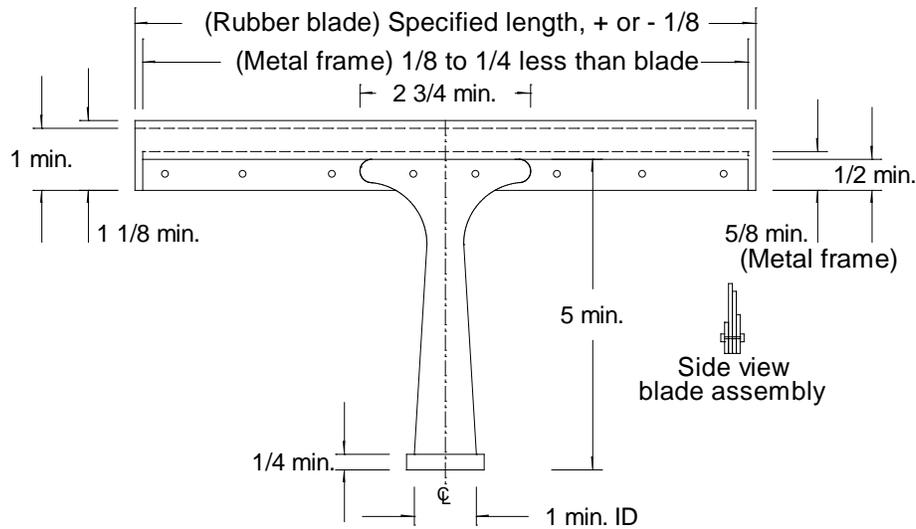


Figure 1  
(All dimensions are in inches.)

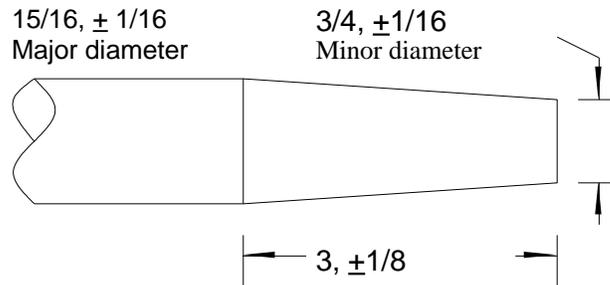


Figure 2  
(All dimensions are in inches.)

Performance requirements: There shall be no visible evidence of surface water when tested by wiping 5 times over a wet piece of flat glass.

Workmanship: The finished squeegees shall be straight, clean, well made, and free from any defects which may affect appearance or serviceability.

Unit of issue – EA (each).

**NSN: 7920-00-577-4746**

SQUEEGE, WINDOW: Shall be 16 inch, double blade, two piece brass or stainless steel frame window squeegees without handles with the following characteristics:

Screws, bolts, and nuts: Screws, bolts, and nuts shall be made of corrosion resistant materials or shall be made of steel which is plated to resist corrosion.

Frames and channels: The metal channels and metal strips of the squeegees shall be made of brass or stainless steel and shall conform to the dimensional requirements of Figure 1.

Rubber blade material: The rubber blades shall be made of natural or synthetic rubber containing no coloring agent which will stain, bleed, or run. The working (exposed) edge shall be straight, free from dirt inclusions, cutter marks, or serrations. The blade material shall withstand immersion in  $170 \pm 5^\circ\text{F}$  ( $77 \pm 3^\circ\text{C}$ ) water for 15 minutes without any evidence of bleeding of the color or deterioration of the material. The blade shall not show deterioration or evidence of cracking when, after being exposed to the accelerated aging test of ASTM D 573 at  $160 \pm 2^\circ\text{F}$  ( $71 \pm 1^\circ\text{C}$ ) for 94 hours, and it is bent around a rod 1/2 inch in diameter to an angle of  $90^\circ$ , both directions, for 25 cycles.

Construction: The metal frame squeegees shall be as specified by Figure 1. The metal frame squeegee shall be equipped with a socket tapered for insertion of a wooden handle (see paragraph below). A complete unit shall consist of the metal frame, socket, and blade. The blades of the squeegees shall extend beyond the ends of the metal strips no less than 1/8 inch at each end. The double blade, two-piece frame window squeegees shall have a 2-ply rubber blade secured in between the two pieces of the metal strip frame by not less than 6 equally spaced screws or bolts of not less than 1/8 inch diameter. Each of the blades shall be 5/64 inch thick minimum and of the minimum length specified by the size, the metal strips shall each be 17 gauge (0.0453 inch) minimum. The bolts or screws shall extend through the first strip, both rubber blades, and the other metal strip, and shall not protrude more than 1/8 inch beyond the nuts used or the metal strip if no nuts are used. The handle socket shall be securely attached to the metal strips. The dimensions of the squeegees shall be as specified by Figure 1

Handle sockets: Handle sockets for the squeegees shall be made of brass or stainless steel and shall conform to the dimensions specified by Figure 1. The socket handle shall be tapered to accept the tapered end of a handle conforming to Figure 2.

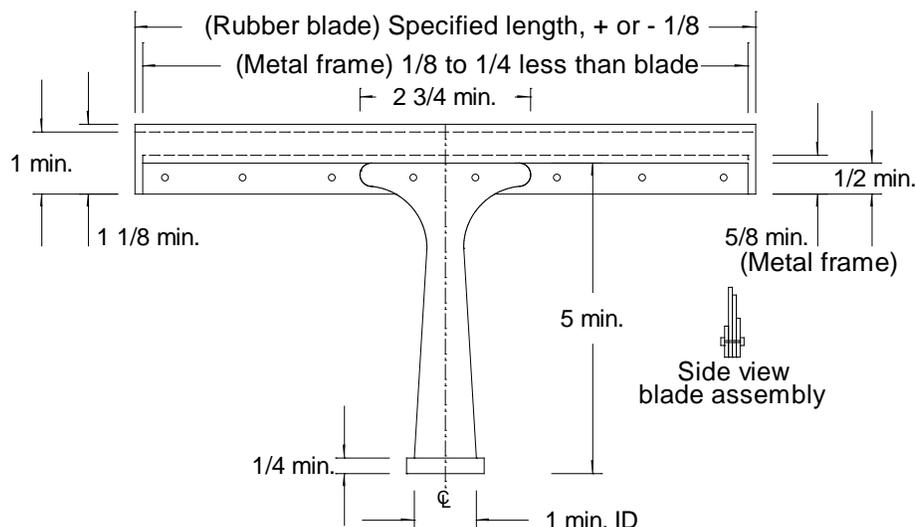


Figure 1.  
(All dimensions are in inches.)

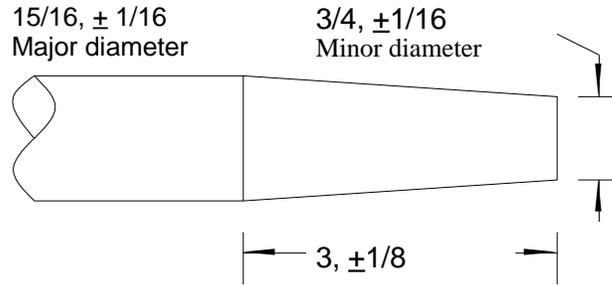


Figure 2.  
(All dimensions are in inches.)

Performance requirements: There shall be no visible evidence of surface water when tested by wiping 5 times over a wet piece of flat glass.

Workmanship: The finished squeegees shall be straight, clean, well made, and free from any defects which may affect appearance or serviceability.

Unit of issue – EA (each).

**NSN: 7920-00-616-2493**

MOP, DUSTING (LONG HANDLE): Shall be a universal swivel dry cotton dust mop, including 96 inch handle, swivel, tapered 22-1/4 inch frame, and mophead with a 9-1/2 inch X 30 inch sweep. The dust mops are intended to be used to remove dust from smooth floors with the following characteristics:

The handle shall be a close-grained hardwood, or softwood of Douglas Fir or southern yellow pine, with a moisture content of not more than 12 percent. The handle shall consist of two  $48 \pm 1/2$  inch in length sections and  $1 \pm 1/8$  inch in diameter. The extension shall attach to the handle by a positive locking means not allowing warp or wobble. The handle shall be free from warp, decay, knots, checks, shakes, splits, slivers, bark pocket, and larva channels or pockets. The grain shall not slope more than 1 inch in 15. The handle shall be smoothly sanded and completely sealed with a clear lacquer, varnish, or acrylic sealant.

The frames shall be formed from steel wire of 0.158 inch minimum in diameter. The frame shall be similar to the designs depicted by figure 1. Bracing plates or crossmembers are optional and the method of attachment of the swivel is optional. The frame shall be entirely composed of inherently corrosion resistant steel or shall be plated to resist corrosion. The finished frame shall show no evidence of corrosion.

The frames shall have tapered ends similar to Figure 1. The frames shall be  $3-3/8 \pm 1/8$  inches wide and  $22-1/4$  inches  $\pm 1/4$  inch long.



Figure 1.

The universal swivel shall be composed of steel that is either inherently corrosion resistant or plated to resist corrosion. The design shall allow full swivel action and "steering" of the mophead but shall not allow free rotation of the frame. A ball and socket design is not permitted. Plastic components are permitted in non-structural members.

If the frame is detachable from the handle the assembly shall be made by fasteners that do not require tools. A removable "clip-on" type joint is acceptable.

The handles and frames shall be of high quality workmanship equal or better to standard commercial practice, and shall not have any defects which may affect appearance, durability or serviceability. The handle shall be straight, smooth, corrosion free (as applicable), without blemishes or defects. The swivel shall move smoothly and easily, and shall be corrosion free. The frame shall be straight, with neat connections and shall be corrosion free.

The mophead base cloth shall be any fabric meeting the requirements of Table I. The cloth shall be natural or bleached and shall be dye free. The finished cloth shall be free of holes and other defects that affect appearance or may affect serviceability.

Table I. Cloth Physical Characteristics.

Characteristic:	Value:	Test Method:
Breaking strength:		
Warp	105 lbs minimum	ASTM D 5034
Fill	75 lbs minimum	ASTM D 5034
Shrinkage	3% maximum	AATCC 150 or 135

The mophead yarns shall be composed of cotton or cotton synthetic blend. If the yarn is a blend, it shall contain no less than 80% cotton. The mophead yarns shall meet the requirements of Table II. The yarns shall be natural or bleached and shall be dye free.

Table II. Yarn Physical Characteristics.

Characteristic:	Value:	Test Method:
Yards per pound	500, ± 50	ASTM D 204
Plies of yarn	4	Visual
Twists per inch	2.25 minimum	Visual
Breaking strength	10 lbs minimum	ASTM D 2256

The thread used shall have a minimum breaking strength of 4 lbs, the color shall be optional.

The material used for binding shall meet the same requirements as the base cloth.

Tape for the ties shall be of tubular braid material. The tape shall be a minimum of 1/4 inch wide. Each tape shall have a minimum of 8 inches free after assembly to the mophead. The tape shall be natural or bleached color and shall be dye free.

The mophead shall be constructed from two pieces of base cloth to which the yarns are attached. One base cloth piece shall form the bottom and the other piece shall form the top and have an opening for the frame, the two pieces shall be sewn together at the perimeter. The bottom shall have two (minimum) parallel rows of yarn sewn to it, the use of strips of self material is optional. Yarn shall also be sewn around the outer perimeter of the assembly. All of the yarns shall be sewn to the cloth in a looped-end construction method, with no cut ends of yarn free. The loops of yarns shall extend a minimum of 2 inches from the cloth. The top piece shall have a round centered opening with a slit extending from the center opening to one end. All exposed edges of the frame opening shall be bound with the binding specified, the outer edges of the cloth shall be serge stitched or bound with binding tape.

The mopheads shall have a pair of tie tapes adjacent to the center opening and another pair midway along the opening for the frame. The mopheads shall be configured to accept tapered end frames. The mopheads shall be sized to permit frames to be easily inserted with allowance for 3% shrinkage.

The mopheads shall weigh 10 pounds per dozen minimum when 12 randomly chosen mops are weighed together:

The mopheads shall be complete and functional and shall be free of any defects that may affect appearance, durability or serviceability. All mophead yarn loops shall be securely caught by the sewing.

Unit of Issue – EA (Each)

**NSN: 7920-00-619-9162**

**BRUSH, SCRUB:** The brushes shall be hand scrub brushes in conformance with the following characteristics:

At the option of the manufacturer, the handles shall be composed of wood or general purpose impact resistant polypropylene or styrene-butadiene. Wood handles shall be knot-free, clear, closed grained and straight grained. Polypropylene and styrene-butadiene handles shall be free from any imperfections.

Brush filler shall be polyamide filament. Polyamide filament shall have an average diameter of 0.012 inch, without artificial color added or white.

Any metal components, such as staple wire, shall be inherently corrosion resistant, or plated to resist corrosion.

The brush shall be similar in appearance to that depicted in Figure 1. Wood blocks shall be solid, plastic blocks may be molded with a depression in the back at the manufacturer's option. All edges of the blocks shall be rounded. Staples and filler shall be driven to the bottom of the tuft holes and the staples imbedded in the block of the bottom of the holes. The filler shall be firmly and permanently attached to the block so that when a tuft is grasped it is not removable when pulled by hand. The blocks shall be permanently marked with the manufacturer's name or recognized trademark.

The brush shall be constructed similar to that depicted in Figure 1 and shall meet the dimensional requirements of Table I

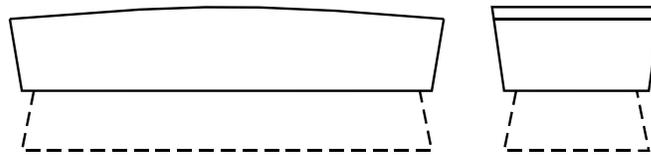


Figure 1.

Table I, Type I Brush.

Characteristic	Dimension
Block:	
Length, overall	4 inches minimum
Width at widest point	1-3/4 □ 1/4 inches
Thickness	3/4 □ 1/8 inch
Filler:	
Length clear of block	9/16 inch minimum
Weight	1.1 ounce minimum

The finished brushes shall be free from splinters, surface defects, flashing, or other defects that may affect serviceability, durability or appearance. The brush filler material shall be evenly and uniformly trimmed to conform to the dimensional requirements.

Unit of Issue – BX (Twelve brushes per box)

**NSN: 7920-00-633-9906**

**SPONGE, REGENERATED CELLULOSE:** Shall be rectangular, 4-1/4 inch wide X 6-1/2 inch long 2-1/8 inch thick, uncompressed, natural colored, regenerated cellulose sponges with the following characteristics:

In addition to the material requirements below, the sponges shall include such compounding ingredients as necessary to produce a soft pliable sponge when wet.

The cellulose sponge shall be made of regenerated cellulose. The sponge shall be soft and pliable, and shall resist any degradation when exposed to normal household cleaning products. The sponges shall have an absorption of 1500% minimum. The percentage absorption shall be determined when tested and calculated as described below:

The absorption of the sponges shall be determined as follows: The sample sponge be washed free of contaminants by a minimum of 5 cycles of being immersed in distilled water and hand squeezed as dry as possible. [Conditioning of the samples at 72±2°C and 50±4% relative humidity for 24 hours shall be required only in instance of dispute of absorption compliance.] The samples shall be weighed to the nearest 10 mg, this value shall be designated W1. The samples shall then be immersed in distilled water and squeezed until all the air has been expelled. Using a non-squeezing hanging device, remove the sponge from the water and allow to drain for 30 seconds. Place on tared holder and reweigh, this value shall be designated W2. Calculate the percent absorption as follows:

$$\text{Percent absorption} = [(W2-W1)/W1] \times 100$$

Submersion in boiling water for 2 hours shall not change the feel, flexibility, or color of the sponge.

The regenerated cellulose sponges shall have tensile strength of 25 psi minimum. The test shall only be performed on uncut sponge batches. The sample(s) to be tested shall be thoroughly wetted and hand squeezed as dry as possible. Samples shall be cut 2 inches wide, 2 inches long, and 1 inch thick. The tensile strength shall be determined by Method 5100 of FED-STD-191, except that the distance between the jaws shall be 1 inch. The breaking force in pounds divided by the cross-section area in square inches equals the tensile strength in psi.

The sponge shall have pores with an average less than 23/32 of an inch in diameter. The average diameter shall be measured by randomly selecting a bounded area on the surface of the sponge, such as a box 1-1/4 inch by 1-1/4 inch drawn on the surface of the sponge. The whole pores within the box shall be counted and measured, and the average diameter calculated.

The dimensions specified for the length and widths shall be minimums, the tolerance for the specified thickness shall be -0 and +0.2 inch.

Sponges shall conform to the quality and grade of product established by this item description. Sponges shall contain no ingredient which may be harmful to the skin. Sponges shall be free from defects which may affect their durability, serviceability and appearance. The sponges shall be soft and pliable when wet, sent free, uniform in color, and ready to use without further preparation.

Testing to establish conformance with the requirements of this description shall be performed on the initial lot of material supplied to the government and thereafter when manufacturing methods, materials or supply sources change.

Unit of issue – BX (BX of 60 each).

**NSN: 7920-00-634-2408**

TOWEL, MACHINERY WIPING: Shall be composed of cotton jean cloth in accordance with Commercial Item Description A-A-50162, dated April 1, 1988, with the following characteristics:

The towels shall be 9 inches by 9 inches (plus or minus 1/2 inch in either direction) in size.

Color - Bleached white.

**EXCEPTIONS TO A-A-50162:**

Section 3, PACKAGING, shall be deleted. The packaging, packing and marking requirements of this Item Purchase Description shall apply.

Table I, Physical Requirement: Delete test method ASTM D1682 and substitute ASTM D5034 - Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test).

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

**PREPARATION FOR DELIVERY:** The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of Issue – PG (300 towels per package).

**NSN: 7920-00-655-5290**

PAD, SCOURING (PLASTIC SPONGE (WITH ABRASIVE BACK)): Shall be abrasive backed plastic sponges for cleaning and scouring cooking pots and pans with the following characteristics:

The pads shall be of the following size: 4-1/2" long, 3" wide, 1/2" thick (all dimensions are minimum).

The pads shall be sponge pads with one abrasive face. The components of the pad shall be suitable for use in water and shall resist all commercial cleaning solutions normally used in the cleaning of food preparation tools without deterioration, color leaching, or separation of the abrasive from the sponge during normal use.

The sponge shall be of a soft, absorbent, flexible, open celled, synthetic material. The average pore density shall be 50 to 80 pores per square inch.

The abrasive shall be aluminum oxide permanently bonded to one face of the sponge to form a flexible, abrasive work surface with a minimum coating weight of 60 grams per square foot.

The pads shall be clean, free from dirt, contamination, soap, or other impurities, and shall be cut cleanly with no defects which may affect appearance or serviceability.

Unit of Issue – DZ (Twelve pads in a container).

**NSN: 7920-00-682-6710**

TOWEL, PAPER (INDUSTRIAL WIPING): The towels shall have a minimum 20 cm (approx. 8-1/8 inches) side length with an overall minimum area of 774 cm<sup>2</sup> (approx. 120 sq.in), light duty, nonwoven industrial strength paper towels with the following characteristics:

The towels shall be 100% paper with 40 to 100% recovered fiber, including a minimum of 40% postconsumer fiber as specified by the EPA Guidelines For Federal Procurement of Paper and Paper Products Containing Recovered Materials (40 CFR 247) and the EPA Paper Products Materials Advisory Notice (Federal Register, Vol. 61, No. 104, May 29, 1996).

The towels shall be of single or multi-ply construction meeting the requirements of Table I. The towels shall have creped or embossed surfaces to facilitate wiping utility.

Table I, Physical Characteristics.

Characteristic:		TAPPI Test Method:
Grammage (g/m <sup>2</sup> , minimum):	17.9	T410
Tensile strength:		
Dry (N/m, minimum)	.042	T494
Wet (N/m, minimum)	.010	T456 <sup>2</sup>
Absorption rate (sec., max.): <sup>1</sup>		
water -	10	T432
oil -	20	T432
Total Absorption, % of dry weight (min):		
Water -	275	Para. 3.4.1
Oil -	150	Para. 3.4.2

<sup>1</sup> Absorbency: The cloths shall have the absorbency capacity required by Table I. The test for this shall be as follows:

Water: Cut specimens (10 cm x 10 cm is recommended) and weight to nearest 0.1 g. Entirely immerse each sample in distilled water at 25°C for 3 minutes without movement. Remove by lifting at one corner until entire specimen is clear of the water, allow excess water to drain off for 60 seconds. Place each in a tared weighing bottle and reweigh. Calculate the percent absorption to the nearest 1 percent as follows:

$$\text{Percent absorption} = [(\text{Wet weight} - \text{dry weight}) / \text{dry weight}] \times 100$$

Oil: Same as same as water except using light mineral oil, viscosity 80-90 SU (Saybolt Universal) instead of water. Drain time shall be 20 minutes.

<sup>2</sup> The samples shall be conditioned in an oven at 105°F for 4 minutes prior to testing.

The towels shall be free from holes, tears, dirt, spots, ragged or uneven edges, or any other defects that affect serviceability.

Towels described by this description are intended for general cleaning, polishing and wiping, on dry, wet, and oily surfaces.

TAPPI documents are available from TAPPI, 15 Technology Parkway South, Norcross, GA 30092, (404) 446-1400.

Unit of issue: BX – (Five-thousand and forty (5,040) towels, (Eighteen (18) packages of two-hundred and eighty (280) towels each)).

**NSN: 7920-00-682-6861**

WRINGER, MOP: Shall be a gear and rack type wringer for mop head capacities of 8-16 ounces with the following characteristics:

Wringers: The wringer assembly shall be a downward-pressure design, fabricated of steel and malleable iron, welded basket construction, zinc coated as specified by designation G-90 of ASTM A653, latest edition, as a minimum, to resist corrosion and shall have a painted handle with a plastic hand grip.



Wringer Test: Place a block of wood or other suitable material in the mop compartment of sufficient thickness so that the pressure plate or bars, as applicable, bottom on the block when the handle is in a horizontal position. Apply a load of  $250 \pm 5$  pounds perpendicular to the handle where the hand normally grips and hold the load for 5 to 10 seconds. Examine the wringer for conformance to the following: If the wringer parts, including handles, loosen, break, separate, permanently deform, or are damaged in any way that will affect normal functioning of the wringer or cause the wringer to hang up on the side of the bucket, the wringer fails the test.

Workmanship: The wringers shall present a neat, finished appearance and shall have no sharp, jagged, or rough edges, and shall be free from defects which may affect their function, serviceability, or appearance.

Unit of Issue – EA (Each).

**NSN: 7920-00-721-8884**

TOWEL, PAPER (INDUSTRIAL WIPING): The towels shall a light duty, soft, low-abrasive, paper wiping towel intended for use in cleaning, wiping, and polishing soft plastic surfaces with the following characteristics:

The towels shall be 100% paper with 40 to 100% recovered fiber, including a minimum of 40% postconsumer fiber as specified by the EPA Guidelines For Federal Procurement of Paper and Paper Products Containing Recovered Materials (40 CFR 247) and the EPA Paper Products Materials Advisory Notice (Federal Register, Vol. 61, No. 104, May 29, 1996).

Size – 35 square inches minimum with no side smaller than 4 inches.

Put up – interfolded.

The towels shall be of single or multi-ply construction meeting the requirements of Table I. The towels shall have creped or embossed surfaces to facilitate wiping utility.

Table I, Physical Characteristics.

Characteristic:		TAPPI Test Method:
Basis weight, lbs., (min.) (24x36-500)	11	T410
Tensile strength, oz/in. (min.):		
Cross direction (Dry)	6	T494
Cross direction (Wet)	1.5	T456 <sup>2</sup>
Absorption rate (sec., max.): <sup>1</sup>		
water -	10	T432
oil -	20	T432
Total Absorption, % of dry weight (min): <sup>1</sup>		
Water -	275	See below
Oil -	150	See below

<sup>1</sup> Absorbency: The cloths shall have the absorbency capacity required by Table I, above. The test for this shall be as follows:

<sup>2</sup> The samples shall be conditioned in an oven at 105°F for 4 minutes prior to testing.

Water: Cut specimens (10 cm x 10 cm is recommended) and weight to nearest 0.1 g. Entirely immerse each sample in distilled water at 25°C for 3 minutes without movement. Remove by lifting at one corner until entire specimen is clear of the water, allow excess water to drain off for 60 seconds. Place each in a tared weighing bottle and reweigh. Calculate the percent absorption to the nearest 1 percent as follows:

$$\text{Percent absorption} = [(\text{Wet weight} - \text{dry weight}) / \text{dry weight}] \times 100$$

Oil: Same as water except using light mineral oil, viscosity 80-90 SU (Saybolt Universal) instead of water. Drain time shall be 20 minutes.

The towels shall be free from holes, tears, dirt, spots, ragged or uneven edges, or any other defects that affect serviceability.

Towels described by this description are intended for general cleaning, polishing and wiping, on dry, wet, and oily surfaces.

TAPPI documents are available from TAPPI, 15 Technology Parkway South, Norcross, GA 30092, (404) 446-1400.

Unit of issue - BX (box of 16,800 towels (60 packages of 280 towels each)).

**NSN: 7920-00-753-5242**

PADS, SCOURING: Shall be a light duty non-woven pad composed of abrasive coated synthetic fibers. The pad shall be in accordance with the following:

Design: The pads shall be abrasive coated fibers, bonded together and cut to the size and shape specified. The pads shall have a uniform thickness, density, color, and abrasive content. These pads shall be for cleaning pots and pans and shall be suitable for use with food service equipment. The pads shall have good color fastness to normal cleaning solutions. The pads shall be free of bacteriological effects and shall not contain any ingredient which may cause any harmful effects to personnel using the pad.

Size:

Width - 6 ( $\pm 1/8$ ) inches  
 Length - 9-1/2 ( $\pm 1/8$ ) inches  
 Thickness - 1/4 (min.) inch

Materials: The filament shall be good quality, crimped, 100% nylon fibers, a polyester and nylon combination, or 100% polyester. The fiber shall have a staple length of 1 inch minimum. When polyester is used, the polyester content shall be not less than 10%. The major quantity of filaments shall be 15 denier, plus or minus 5 denier. Minor quantities from 10 to 25 percent of 5 to 10 denier filaments shall be acceptable.

Abrasive: The abrasive used shall be an aluminum oxide or silicon oxide abrasive, fine grade.

Adhesive: The adhesive used as a binder shall be a water insoluble nonthermoplastic resin. The adhesive can be modified with coloring dyes and inert fillers in amounts not to exceed 3 percent. The adhesive shall show negligible attack by cleaning solutions and boiling water when tested.

Workmanship: The scouring pads shall be of good quality workmanship, be uniform in size and shape with parallel edges and faces, and shall not have any ragged edges, tears, holes, debris, forging matter, or any other defects that may affect their appearance, durability, or serviceability.

Weight: A finished pad shall be not less than 17 grams in weight.

Unit of Issue: Ten (10) pads per package.

**NSN: 7920-00-772-5800**

BRUSH, SANITARY: Shall be light duty nylon filament sanitary cleaning brushes, with a curved brush head with the following characteristics:

The brush shall meet the requirements of Table I, and be configured similar to Figure 1. The brushes shall have nylon filler. The brush head shall be a twisted-in-wire type, horse collar shaped, and contoured to reach the inside surfaces of wash basins, toilet bowls, bedpans, etc. The handle shall be wood or plastic at the option of the manufacturer. The wire ends of the brush head shall be inserted into the handle to a depth of not less than 2 inches and secured by a commercial method suitable for the use intended. When an adhesive is used to secure the twisted wire ends of the brush head within the wood handle, or the components of the plastic handle, it shall be an adhesive that is water and chemical resistant.

Table I. Physical Requirements.

Characteristic:	Requirements:
Handle, inches:	
Length	14 $\pm$ 1
Diameter (cylindrical)	7/8 $\pm$ 1/8
Diameter (oval, optional for plastic handle only):	
Narrowest	1/2 minimum
Widest	1 minimum
Brush part, (in inches):	
Length, overall	5-1/2 $\pm$ 1
Width, overall	
At widest point	4-1/2 $\pm$ 1
At handle	2-1/4 $\pm$ 1/2
Thickness	1-7/8 minimum
Filler weight per brush:	1.0 oz. minimum

The filler shall be crimped or level nylon with a minimum average diameter of 0.011 inch, or a level X-shaped in cross-section with a minimum average diameter of 0.015 inch mm), and shall be natural color (undyed) or black. The filler shall be evenly and closely distributed in the twists of two wires, the wire ends shall be inserted into the handle. The filler shall project perpendicular from the wire in the brush head and flare around the circumference of the wire forming a dense working surface over the entire brush head. The filler shall be evenly trimmed.

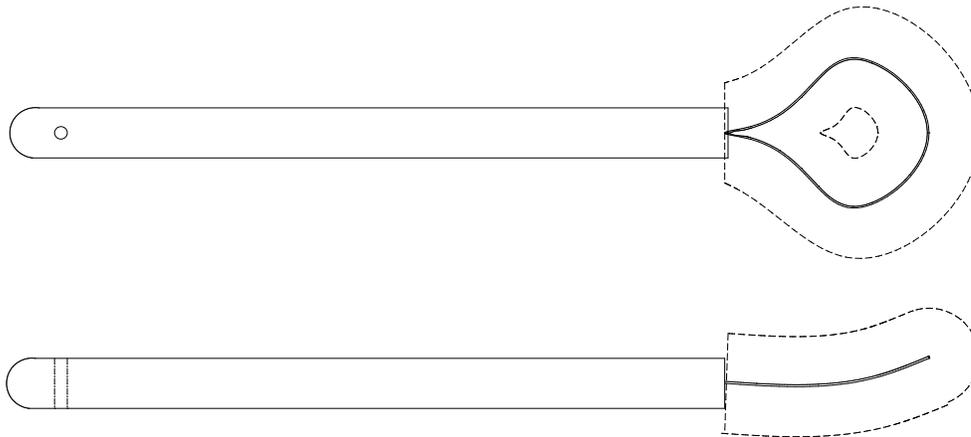


Figure 1

The wood handle of the brushes shall be close-grain and straight-grain hardwood, medium or high density, free from defects which may affect serviceability or appearance. The handle shall be straight, circular in cross-section, and of the same diameter throughout. The end opposite where the brush head inserts shall be rounded and have a hole for hanging the brush. The finished wood handle shall be coated with a clear, water resistant coating.

The shape of plastic handles shall be in accordance with the manufacturers normal commercial practice provided it does not conflict with the requirements of this purchase description. One end of the handle shall have a center hole, an integral adapter, or an auxiliary adapter and collar of the same material or of a plastic material compatible with the material of the handle. The auxiliary adapter shall be bonded to the handle. The hole in the handle or in the adapter shall be of sufficient size to receive not less than 1-1/4 inches of the twisted wire ends of the brush part plus the bonding agent. The opposite end of the handle shall have a hole or other means of hanging the brush. If a bonding agent is used to secure any part of the brush, it shall be compatible with the other materials and resistant to water and chemicals.

When subjected to a pulling force of 4 pounds no tuft consisting of 50 strands of filler shall be dislodged from any brush head.

The brushes shall meet the following requirements after being completely immersed in a 1% sodium hypochlorite solution for 24 hours at 72°F ±2°F:

- The bonding agent, if applicable, shall show no signs of softening or deterioration and shall not show evidence of shedding fibers.
- Filler shall show no evidence of artificial color, or in the case of black filler, shall show no evidence of bleeding.
- Filler shall show no evidence of damage or change in stiffness.
- Wire and other metal parts shall be free from rust and otherwise unaffected.
- Handles shall not crack, split, chip, or craze, as applicable, and coatings on wood handles shall not become soft, peel, or chip before or after testing.

Brushes shall be free from defects which may affect serviceability or appearance.

Unit of Issue – EA (Each).

**NSN: 7920-00-781-5247**

HANDLE, MOP, WET: Shall be a 60 inch long metal mop handle and clip type attachment fixture to hold wet-cleaning string type mopheads with the following characteristics:

The tubing for handle may be steel or aluminum alloy at the manufacturers' option. Steel tubing shall be not less than 0.029 inch wall thickness. The aluminum alloy tubing shall be not less than 0.057 inch wall thickness. The tubing shall be of a seamless, one piece welded construction, not less than 7/8 inch outside diameter. The handle length shall be as specified with a tolerance of plus or minus 1/2 inch.

The metal handles shall be covered with a plastic sleeve from within 6 inches of the mop fixture end to the operator end. The operator end shall have a cap or plug secured in place to prevent the entry of water. The plastic cover shall have a thickness no less than 0.025 inch and be attached or tightly shrunk onto the metal tubing so that movement of the plastic on the metal handle by hand is not possible.

All metal components except the handles shall be made of corrosion resistant materials or shall be plated to resist corrosion. When inspected, any evidence of corrosion shall fail the lot.

The clip type mop holder shall hold a mophead by means of a detachable bail (spring yoke). Figure 1 depicts the general configuration of this mophead.

The holder shall have an inside width of 6-1/2 inches, plus or minus 1/4 inch. The steel spring clip on the holder shall be formed from wire 0.15 inch minimum in diameter. The attachment of the fixtures to the ferrule and the ferrule to the handle shall be in such a manner that the head will not loosen or come apart from the handle without purposeful disassembly. Permanent attachment, such as welding or riveting is permitted.

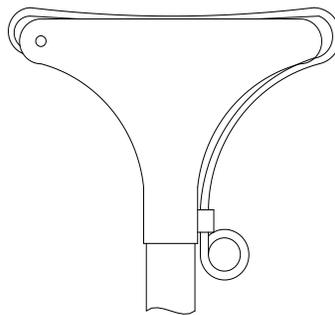


Figure 1

The finished mop handle assemblies shall be free from defects affecting appearance, serviceability or durability. The handles shall be free from warps, burrs, slivers, or rough spots. The heads and bails shall be free from burrs or sharp edges and shall open and close smoothly without damage, and shall not injure the operator.

Unit of Issue – EA (Each).

**NSN: 7920-00-823-6931**

TOWEL, PAPER (INDUSTRIAL WIPING): The towels shall have a minimum 29 cm (approx. 11-1/2 inches) side length with an overall minimum area of 1109 cm<sup>2</sup> (approx. 172 sq.in), heavy duty, nonwoven industrial strength paper towels with the following characteristics:

The towels shall be 100% paper with 40 to 100% recovered fiber, including a minimum of 40% postconsumer fiber as specified by the EPA Guidelines For Federal Procurement of Paper and Paper Products Containing Recovered Materials (40 CFR 247) and the EPA Paper Products Materials Advisory Notice (Federal Register, Vol. 61, No. 104, May 29, 1996).

The towels shall be of single or multi-ply construction meeting the requirements of Table I. The towels shall have creped or embossed surfaces to facilitate wiping utility.

Table I, Physical Characteristics.

Characteristic:		TAPPI Test Method:
Grammage (g/m <sup>2</sup> , minimum)	68.3	T410
Tensile strength:		
Dry (N/m, minimum)	.000240	T494
Wet (N/m, minimum)	.000076	T456 <sup>1</sup>
Absorption rate (sec., max.):		
Water -	10	T432
Oil -	20	T432
Total Absorption, % of dry weight (min):		
Water -	450	Para. 3.4.1
Oil -	275	Para. 3.4.2

<sup>1</sup> Samples shall be conditioned in an oven at 105°F for 4 minutes prior to testing.

The towels shall be free from holes, tears, dirt, spots, ragged or uneven edges, or any other defects that affect serviceability.

Towels described by this description are intended for general cleaning, polishing and wiping, on dry, wet, and oily surfaces.

TAPPI documents are available from TAPPI, 15 Technology Parkway South, Norcross, GA 30092, Phone (404) 446-1400.

Unit of issue – BX (nine-hundred (900) towels (18 packages of 50 towels each) per box.

**NSN: 7920-00-823-9772**

TOWEL, PAPER (INDUSTRIAL WIPING): This towel is intended for general cleaning, polishing and for use in cleaning up of oil, grease and other liquid spills and shall have the following characteristics:

The towels shall be 100% paper with 40 to 100% recovered fiber, including a minimum of 40% postconsumer fiber as specified by the EPA Guidelines For Federal Procurement of Paper and Paper Products Containing Recovered Materials (40 CFR 247) and the EPA Paper Products Materials Advisory Notice (Federal Register, Vol. 61, No. 104, May 29, 1996).

Put up: Flat.

Size: 235 square inches with no side smaller than 12-5/8 inches.

Material: Commercial grade, 93% biodegradable, 100 percent recycled, 4-ply absorbent, nylon reinforced laminated tissue with the following characteristics:

<u>CHARACTERISTIC</u>	<u>REQUIREMENT</u>	<u>TEST METHOD</u>
Basis weight	40.0 lb. average	T410 <sup>3</sup>
CD, Dry Tensile <sup>1</sup>	32 oz/in average	T494 <sup>3</sup>

CD, Wet Tensile <sup>\1</sup>

25 oz/in average

<sup>\2\3</sup>

\1 Samples shall be cut so that the test is conducted by pulling in directions that are parallel to any reinforcement fibers in the material.

\2 Samples shall be conditioned in an oven at 105°F for 4 minutes prior to testing.

\3 TAPPI (T410, T494 and T456) are available from TAPPI, 15 Technology Parkway South, Norcross, GA 30092, (404) 446-1400

Workmanship: The towels shall be free from holes, tears, dirt, spots, ragged or uneven edges, or any other defects that affect serviceability.

Unit of issue: One-thousand (1,000) towels.

**NSN: 7920-00-823-9773**

TOWEL, PAPER (INDUSTRIAL WIPING): This towel is intended for general cleaning, polishing and for use in cleaning up of oil, grease and other liquid spills and shall have the following characteristics:

The towels shall be 100% recovered fiber, including a minimum of 40% post-consumer recovered materials as specified by the EPA Guidelines For Federal Procurement of Paper and Paper Products Containing Recovered Materials (40 CFR 247) and the EPA Paper Products Materials Advisory Notice (Federal Register, Vol. 61, No. 104, May 29, 1996).

Put up: Flat.

Size: 185 square inches with no side smaller than 12-5/8 inches.

Material: Commercial grade, 93% biodegradable, 100 percent recycled, 4-ply absorbent, nylon reinforced laminated tissue with the following characteristics:

<u>CHARACTERISTIC</u>	<u>REQUIREMENT</u>	<u>TEST METHOD</u>
Basis weight	40.0 lb. average	T410 <sup>\3</sup>
CD, Dry Tensile <sup>\1</sup>	32 oz/in average	T494 <sup>\3</sup>
CD, Wet Tensile <sup>\1</sup>	25 oz/in average	T456 <sup>\2\3</sup>

\1 Samples shall be cut so that the test is conducted by pulling in directions that are parallel to any reinforcement fibers in the material.

\2 Samples shall be conditioned in an oven at 105°F for 4 minutes prior to testing.

\3 TAPPI (T410, T494 and T456) are available from TAPPI, 15 Technology Parkway South, Norcross, GA 30092, (404) 446-1400

Workmanship: The towels shall be free from holes, tears, dirt, spots, ragged or uneven edges, or any other defects that affect serviceability.

Unit of issue: MX – (One-thousand (1,000) towels).

**NSN: 7920-00-851-0141**

MOPHEAD, DUSTING, COTTON: Shall be a mophead with an overall sweep of 13 inch X 56 inch for use with a 48 inch X 5 inch wide rounded frame. The dust mops are intended to be used to remove dust from smooth floors with the following characteristics:

The mophead base cloth shall be any fabric meeting the requirements of Table I. The cloth shall be natural or bleached and shall be dye free. The finished cloth shall be free of holes and other defects that affect appearance or may affect serviceability.

Table I, Cloth Physical Characteristics.

Characteristic:	Value:	Test Method:
Breaking strength:		
Warp	105 lbs, minimum	ASTM D 5034
Fill	75 lbs, minimum	ASTM D 5034
Shrinkage	3% maximum	AATCC 150 or 135

The mophead yarns shall be composed of cotton or cotton synthetic blend. If the yarn is a blend, it shall contain no less than 80% cotton. The mophead yarns shall meet the requirements of Table II. The yarns shall be natural or bleached and shall be dye free.

Table II, Yarn Physical Characteristics.

Characteristic:	Value:	Test Method:
Yards per pound	500, +/- 50	ASTM D 204
Plies of yarn	4	Visual
Twists per inch	2.25, minimum	Visual
Breaking strength	10 lbs, minimum	ASTM D 2256

The thread used shall have a minimum breaking strength of 4 lbs., the color shall be optional.

The material used for binding shall meet the same requirements as the base cloth.

Tape for the ties shall be of tubular braid material. The tape shall be a minimum of 1/4 inch wide. Each tape shall have a minimum of 8 inches free after assembly to the mophead. The tape shall be natural or bleached color and shall be dye free.

The mophead shall be constructed from two pieces of base cloth to which the yarns are attached. One base cloth piece shall form the bottom and the other piece shall form the top and have an opening for the frame, the two pieces shall be sewn together at the perimeter. The bottom shall have two (minimum) parallel rows of yarn sewn to it, the use of strips of self material is optional. Yarn shall also be sewn around the outer perimeter of the assembly. All of the yarns shall be sewn to the cloth in a looped-end construction method, with no cut ends of yarn free. The loops of yarns shall extend a minimum of 2 inches from the cloth. The top piece shall have a round centered opening with a slit extending from the center opening to one end. All exposed edges of the frame opening shall be bound with the binding specified, the outer edges of the cloth shall be serge stitched or bound with binding tape.

The mopheads shall have a pair of tie tapes adjacent to the center opening. The mopheads shall have at least two more pairs of tie tapes evenly spaced along the opening for the frame. The mopheads shall be configured to accept wide round ended frames. The mopheads shall be sized to permit the frames to be easily inserted with allowance for 3% shrinkage.

The mopheads shall weigh 22 pounds per dozen minimum when 12 randomly chosen mops are weighed together:

The mopheads shall be complete and functional and shall be free of any defects that may affect appearance, durability or serviceability. All mophead yarn loops shall be secured by the sewing.

Unit of Issue – EA (Each).

**NSN: 7920-00-851-0142**

HANDLE AND FRAME FOR DUSTING MOP: Shall be a wide rounded 48 inch long X 5 inch wide wire frame, universal swivel, and 60 inch tubular metal handle with the following characteristics:

The handle shall be tubular steel or aluminum, 22 gauge minimum thickness,  $7/8 \pm 1/16$  inch outside diameter, and  $60 \pm 1/2$  inches long. The handle end shall have a plastic or rubber handgrip of non-marring material. A foam-rubber type covering for the handle is permitted. Steel handles shall be inherently corrosion resistant, plated to resist corrosion, or be completely covered with a baked-on enamel finish or powder coated finish at the manufacturer's option. The finished handle shall show no evidence of corrosion.

The frames shall have rounded ends similar to Figure 1. The frames shall be  $5 \pm 1/4$  inches wide by  $48 \pm 1/4$  inches long. If the frame has a waist, it shall not be less than  $3-3/8$  inches wide.

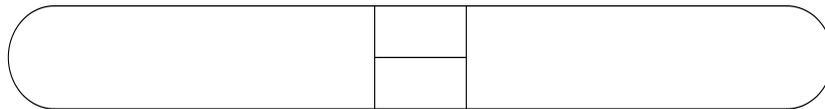


Figure 1.

The universal swivel shall be composed of steel that is either inherently corrosion resistant or plated to resist corrosion. The design shall allow full swivel action and "steering" of the mop-head but shall not allow free rotation of the frame. A ball and socket design is not permitted. Plastic components are permitted in non-structural members.

If the frame is detachable from the handle the assembly shall be made by fasteners that do not require tools. A removable "clip-on" type joint is acceptable.

The handles and frames shall be of high quality workmanship equal or better to standard commercial practice, and shall not have any defects which may affect appearance, durability or serviceability. The handle shall be straight, smooth, corrosion free, without blemishes or defects. The swivel shall move smoothly and easily, and shall be corrosion free. The frame shall be straight, with neat connections and shall be corrosion free.

Unit of issue: BX (BX of 6 each).

**NSN: 7920-00-884-1115**

SPONGE, REGENERATED CELLULOSE: Shall be rectangular,  $4-1/4$  inch wide X  $6-1/4$  inch long X  $2-1/8$  inch thick, uncompressed, natural colored, regenerated cellulose sponges with the following characteristics:

In addition to the material requirements below, the sponges shall include such compounding ingredients as necessary to produce a soft pliable sponge when wet.

The cellulose sponge shall be made of regenerated cellulose. The sponge shall be soft and pliable, and shall resist any degradation when exposed to normal household cleaning products. The sponges shall have an absorption of 1500% minimum. The percentage absorption shall be determined when tested and calculated as described below.

The absorption of the sponges shall be determined as follows: The sample sponge be washed free of contaminants by a minimum of 5 cycles of being immersed in distilled water and hand squeezed as dry as possible. [Conditioning of the samples at  $72 \pm 2^{\circ}\text{C}$  and  $50 \pm 4\%$  relative humidity for 24 hours shall be required only in instance of dispute of absorption compliance.] The samples shall be weighed to the nearest 10 mg, this value shall be designated W1. The samples shall then be immersed in distilled water

and squeezed until all the air has been expelled. Using a non-squeezing hanging device, remove the sponge from the water and allow to drain for 30 seconds. Place on tared holder and reweigh, this value shall be designated W2. Calculate the percent absorption as follows: Percent absorption =  $[(W2-W1)/W1] \times 100$

Submersion in boiling water for 2 hours shall not change the feel, flexibility, or color of the sponge.

The regenerated cellulose sponges shall have tensile strength of 25 psi minimum. The test shall only be performed on uncut sponge batches. The sample(s) to be tested shall be thoroughly wetted and hand squeezed as dry as possible. Samples shall be cut 2 inches wide, 2 inches long, and 1 inch thick. The tensile strength shall be determined by Method 5100 of FED-STD-191, except that the distance between the jaws shall be 1 inch. The breaking force in pounds divided by the cross-section area in square inches equals the tensile strength in psi.

The sponge shall have pores with an average less than 23/32 of an inch in diameter. The average diameter shall be measured by randomly selecting a bounded area on the surface of the sponge, such as a box 1-1/4 inch by 1-1/4 inch drawn on the surface of the sponge. The whole pores within the box shall be counted and measured, and the average diameter calculated.

The dimensions specified for the length and widths shall be minimums, the tolerance for the specified thickness shall be -0 and +0.2 inch.

Sponges shall conform to the quality and grade of product established by this item description. Sponges shall contain no ingredient which may be harmful to the skin. Sponges shall be free from defects which may affect their durability, serviceability and appearance. The sponges shall be soft and pliable when wet, sent free, uniform in color, and ready to use without further preparation.

Testing to establish conformance with the requirements of this description shall be performed on the initial lot of material supplied to the government and thereafter when manufacturing methods, materials or supply sources change.

Unit of Issue – EA (Each).

**NSN 7920-00-884-1116**

SPONGE, REGENERATED CELLULOSE: Shall be rectangular, 3-5/8 inch wide X 5-3/4 inch long X 1-3/4 inch thick, uncompressed, natural colored, regenerated cellulose sponges with the following characteristics:

In addition to the material requirements below, the sponges shall include such compounding ingredients as necessary to produce a soft pliable sponge when wet.

The cellulose sponge shall be made of regenerated cellulose. The sponge shall be soft and pliable, and shall resist any degradation when exposed to normal household cleaning products. The sponges shall have an absorption of 1500% minimum. The percentage absorption shall be determined when tested and calculated as described below.

The absorption of the sponges shall be determined as follows: The sample sponge be washed free of contaminants by a minimum of 5 cycles of being immersed in distilled water and hand squeezed as dry as possible. [Conditioning of the samples at  $72 \pm 2^{\circ}\text{C}$  and  $50 \pm 4\%$  relative humidity for 24 hours shall be required only in instance of dispute of absorption compliance.] The samples shall be weighed to the nearest 10 mg, this value shall be designated W1. The samples shall then be immersed in distilled water and squeezed until all the air has been expelled. Using a non-squeezing hanging device, remove the sponge from the water and allow to drain for 30 seconds. Place on tared holder and reweigh, this value shall be designated W2. Calculate the percent absorption as follows: Percent absorption =  $[(W2-W1)/W1] \times 100$

Submersion in boiling water for 2 hours shall not change the feel, flexibility, or color of the sponge.

The regenerated cellulose sponges shall have tensile strength of 25 psi minimum. The test shall only be performed on uncut sponge batches. The sample(s) to be tested shall be thoroughly wetted and hand squeezed as dry as possible. Samples shall be cut 2 inches wide, 2 inches long, and 1 inch thick. The tensile strength shall be determined by Method 5100 of FED-STD-191, except that the distance between the jaws shall be 1 inch. The breaking force in pounds divided by the cross-section area in square inches equals the tensile strength in psi.

The sponge shall have pores with an average less than 23/32 of an inch in diameter. The average diameter shall be measured by randomly selecting a bounded area on the surface of the sponge, such as a box 1-1/4 inch by 1-1/4 inch drawn on the surface of the sponge. The whole pores within the box shall be counted and measured, and the average diameter calculated.

The dimensions specified for the length and widths shall be minimums, the tolerance for the specified thickness shall be -0 and +0.2 inch.

Sponges shall conform to the quality and grade of product established by this item description. Sponges shall contain no ingredient which may be harmful to the skin. Sponges shall be free from defects which may affect their durability, serviceability and appearance. The sponges shall be soft and pliable when wet, sent free, uniform in color, and ready to use without further preparation.

Testing to establish conformance with the requirements of this description shall be performed on the initial lot of material supplied to the government and thereafter when manufacturing methods, materials or supply sources change.

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

**PREPARATION FOR DELIVERY:** The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of Issue – BX (Sixty (60) sponges per box.) Each unit of issue (BX) shall be packaged, packed and marked for redistribution.

**NSN: 7920-00-891-7537**

PAD, SCOURING, GRIDDLE: Nylon, open textured web scouring pad. The pad filaments shall be coated with 100% aluminum oxide abrasive cleaning particles bonded to the filaments by a heat-resistant adhesive. The pad shall be suitable for use on food preparing griddles at cooking temperatures without any deterioration or release of toxic chemicals. The pad materials shall not support combustion: After being held over the flame from a cigarette lighter for a minimum of 10 seconds and removed, the pad shall self-extinguish within 5 seconds.

Size - 5-1/4 (+/- 1/8) inches long x 4 (+/- 1/8) inches wide, and 1/2 (+/- 1/8) inch thick, rectangular in shape, 14 g minimum weight. Not soap impregnated. For use with holder NSN 7920-01-222-7798.

The pads shall be 3M part number 46, or made from 3M produced or equivalent material.

Unit of issue - ten (10) pad per package with six (6) packages (60 pads total) per box.

**NSN: 7920-00-893-5903**

MOPPING OUTFIT, FLOOR: Shall be a floor mopping assembly consisting of a 35 quart steel bucket a gear and rack wringer with the following characteristics:

The mopping assembly shall consist of a 35 quart oval bucket with a compatible gear and rack wringer. The bucket shall be mounted on a spider chassis (bucket carrier) with four swivel casters and rubber or plastic bumpers.

Wringer: The wringer assembly shall be fabricated of steel and malleable iron, zinc coated as specified by designation G-90 of ASTM A653, latest edition, as a minimum, to resist corrosion and shall have a painted handle with a plastic hand grip. The wringer shall be of a size that is compatible and functional with the referenced size bucket. Minimum interior dimensions of the fixed face shall be 8-7/8 inches wide and 5-1/2 inches high midway between the faces (excluding paddles), and 6-1/8 inches deep between the faces.

Wringer Test: Place a block of wood or other suitable material in the mop compartment of sufficient thickness so that the pressure plate or bars, as applicable, bottom on the block when the handle is in a horizontal position. Apply a load of  $250 \pm 5$  pounds perpendicular to the handle where the hand normally grips and hold the load for 5 to 10 seconds. Examine the wringer for conformance to the following. If the wringer parts, including handles, loosen, break, separate, permanently deform, or are damaged in any way that will affect normal functioning of the wringer or cause the wringer to hang up on the side of the bucket, the wringer fails the test.

Bucket: The 35 quart buckets shall be zinc coated as specified by designation G-90 of ASTM A653, latest edition, as a minimum, to resist corrosion. The sides and bottom of the bucket shall be composed of galvanized steel a minimum of 0.023 inch thick. The buckets shall be oval in shape and shall be mounted on a spider chassis (bucket carrier) with four swivel casters. The chassis shall have rubber or plastic bumpers. The bucket shall have a galvanized bail with a finished diameter no less than 0.24 inch. All bucket seams shall be seamed.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Bucket, rim, and sidewall test: Remove the spider chassis from the bucket. If the spider chassis is not removable, remove the casters only. Using a wringer designed for use with the size bucket to be tested, mount the wringer to the bucket rim in the conventional manner. Place a block of wood or other suitable material of sufficient thickness in the mop compartment so that the pressure plate or bars, as applicable, bottom on the block when the handle is in the horizontal position. Apply a test load of  $250 \pm 5$  pounds perpendicular to the handle where the hand normally grips and hold the load for 5 to 10 seconds. The wringer may be modified if necessary to be able to be used in this test. If the top rim or bucket walls show any readily apparent visual permanent deformation the bucket fails the test.

Chassis: The chassis shall be furnished with rubber or plastic bumpers.

Casters: The casters shall be not less than 1-7/8 inches in diameter.

Unit of issue – OT (outfit).

**NSN: 7920-00-926-5146**

HANDLE, EXTENSION, ALUMINUM, TELESCOPING: Shall be an aluminum handle shaft into which anodized aluminum slider tube shall be telescoped with the following characteristics:

The handle shaft shall have a collar-type (collet) locking device permanently attached to the distal end to securely lock the slider tube in any extended position within the range of adjustment governed by the size by a twist of the outer locking collar. The locking collar assembly shall be composed of metal or nylon. The slider tube shall have a stop to prevent the complete removal of the slider tube from the handle tube. Whether collapsed or extended, the slider tube shall not wobble or otherwise show looseness when the handle end is shaken. The locking device shall be capable of solidly holding the slider shaft without deterioration after 100 cycles of tightening and loosening, each cycle to be taken from a point where the shaft can easily be moved to a point where the shaft cannot be moved by hand.

The distal end of the slider tube shall have attached a heavy-duty Acme threaded 3/4 inch diameter, 5 threads per inch, 1-1/16 inch long minimum, 4 full threads minimum, metal or nylon adapter for direct attachment of brushes, paint rollers, squeegees and other items having a standard 3/4 inch ACME threaded hole. The adapter shall be firmly attached to the end of the slider tube in such a manner that it either cannot rotate while in use, or can be locked to prevent rotation.

The proximal (handle) end of the handle shaft shall be covered with a plastic cover. The cover shall cover to the end of the handle tube itself and be ventilated to allow the escape and entrance of air, unless other provisions are made to prevent air pressure from being a hindrance to the slider tube movement.

The size shall be 5 to 10 feet. The total unextended length shall be 5 feet, 6 inches; the extension capability shall be to a total length of 10 feet minimum. The handle shaft shall be a minimum of 0.950 inch outside diameter, the slider tube shall be 0.875 inch outside diameter.

The handle shaft shall have a minimum wall thickness of 0.050 inch and slider tube shall have a minimum wall thickness of 0.035 inch.

Weight: The entire assembly shall weigh no more than 2.5 pounds complete.

The extension handle shall be suitable for extended use. There shall not be any sharp points or edges, or other defects that may affect serviceability, durability or appearance.

Unit of issue – EA (each).

**NSN: 7920-00-926-5176**

SPONGE, METAL: Shall be corrosion-resisting steel sponges intended for use in cleaning cooking pots and pans with the following characteristics:

General: The sponges shall consist of not more than two continuous smooth edge ribbons curled under tension into an unbroken series of coils formed into an interlocking shape.

Dimensions: The ribbon shall be from 0.0014 to 0.0024 inches thick. The finished sponge shall be 4 inches (minimum in diameter) and 1-3/4 inches minimum in thickness.

Workmanship: The finished sponge shall be neat and uniform in appearance, without any rough edges, burrs, slivers, or loose particles. Each sponge shall be clean and free from oil, grease, dirt, and corrosion.

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

**PREPARATION FOR DELIVERY:** The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

**Unit of issue** – DZ (Twelve (12) sponges per box).

**NSN:** 7920-00-926-5243

**BUCKET, MOP:** Shall be a 16 quart mop bucket with the following characteristics:

**Buckets:** The buckets shall be zinc coated as specified by designation G-90 of ASTM A653, latest revision, as a minimum, to resist corrosion. The sides and bottom of the bucket shall be composed of galvanized steel a minimum of 0.023 inch thick. The buckets shall be oval in shape and shall be mounted on a spider chassis (bucket carrier) with four swivel casters. The chassis shall have rubber or plastic bumpers. The bucket shall have a galvanized bail with a finished diameter no less than 0.24 inch. All bucket seams shall be seamed.

**Bucket, rim, and sidewall test:** Remove the spider chassis from the bucket. If the spider chassis is not removable, remove the casters only. Using a wringer designed for use with the size bucket to be tested, mount the wringer to the bucket rim in the conventional manner. Place a block of wood or other suitable material of sufficient thickness in the mop compartment so that the pressure plate or bars, as applicable, bottom on the block when the handle is in the horizontal position. Apply a test load of  $250 \pm 5$  pounds perpendicular to the handle where the hand normally grips and hold the load for 5 to 10 seconds. The wringer may be modified if necessary to be able to be used in this test. If the top rim or bucket walls show any readily apparent visual permanent deformation, the bucket fails the test.

**Casters:** The casters shall be not less than 1-7/8 in diameter.

**Workmanship:** The buckets shall present a neat, finished appearance and shall have no sharp, jagged, or rough edges, and shall be free from defects which may affect their function, serviceability, or appearance.

**SPECIAL MARKING:** All items packed in open head pails of 4 to 6 gallon capacity shall have the pails marked with Child Drowning Warning Labels to comply ASTM F 1615. ASTM standards are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

**Unit of Issue** – EA (Each)

**NSN: 7920-00-926-5244**

BUCKET, MOP: Shall be a 26 quart mop bucket with the following characteristics:

Buckets: The buckets shall be zinc coated as specified by designation G-90 of ASTM A653, latest revision, as a minimum, to resist corrosion. The sides and bottom of the bucket shall be composed of galvanized steel a minimum of 0.023 inch thick. The buckets shall be oval in shape and shall be mounted on a spider chassis (bucket carrier) with four swivel casters. The chassis shall have rubber or plastic bumpers. The bucket shall have a galvanized bail with a finished diameter no less than 0.24 inch. All bucket seams shall be seamed.

Bucket, rim, and sidewall test: Remove the spider chassis from the bucket. If the spider chassis is not removable, remove the casters only. Using a wringer designed for use with the size bucket to be tested, mount the wringer to the bucket rim in the conventional manner. Place a block of wood or other suitable material of sufficient thickness in the mop compartment so that the pressure plate or bars, as applicable, bottom on the block when the handle is in the horizontal position. Apply a test load of  $250 \pm 5$  pounds perpendicular to the handle where the hand normally grips and hold the load for 5 to 10 seconds. The wringer may be modified if necessary to be able to be used in this test. If the top rim or bucket walls show any readily apparent visual permanent deformation, the bucket fails the test.

Casters: The casters shall be not less than 1-7/8 inch diameter.

Workmanship: The buckets shall present a neat, finished appearance and shall have no sharp, jagged, or rough edges, and shall be free from defects which may affect their function, serviceability, or appearance.

Unit of Issue – EA (Each)

**NSN: 7920-00-926-5493**

**MOPHEAD, WET:** Shall be wet use, 16 ounce, cut ends, taped 4 or 5 ply, floor cleaning mopheads composed of cotton and synthetic yarns for the mopping of floors using water and commercial cleaners and disinfectants with the following characteristics:

The yarns of the mopheads shall be cotton or cotton blended with rayon, polyester, nylon, acrylic, or a combination of these fibers when tested in accordance with AATCC Test Method 20. The blended yarns shall be of an intimate fiber blend with a cotton content of not less than 30 percent by weight when tested in accordance with AATCC Test Method 20A. Alternate methods to verify these properties are permitted provided they are accurate and repeatable, and are in current industrial use. The yarns shall be free of trash and foreign material, shall have cut ends, and shall meet the requirements as specified in Table I when tested in accordance with ASTM D 2256, Option A, Condition 1. Yarn properties may be certified to, based on test reports from the manufacturer.

Table I. Physical Requirements of Yarns.

---

Characteristics:	
Plies	4 minimum
Yards/lb	190 minimum
Breaking strength	22 lbs. minimum

---

The headbands, and the tailbands shall be a woven tape with the edges woven or selvaged. The tape for the headband shall be a minimum of 1-1/4 inches wide, weighing 0.30 ounces per linear yard minimum. The tailband shall be a minimum of 1/2 inches wide.

The thread shall be cotton, nylon, or polyester. The cotton thread shall have a breaking strength of 2.1 pounds minimum when tested in accordance with ASTM D 204. The nylon or polyester thread shall have a breaking strength of 17 pounds minimum when tested in accordance with ASTM D 204.

The yarns of mopheads shall be laid side by side, with the ends cut to the finished length specified. The mophead shall have a headband at the center of the yarns and shall have a tailband near each each of the ends..

The mopheads shall have a one-piece headband completely encircling the middle of the evenly distributed yarns with an overlap of 2 inches minimum. The centerline of the headband shall be within plus or minus 3/4 inch of the average midpoint (end to end) of the yarns. The finished mophead shall be 6  $\square$  1/2 inches wide at the headband prior to laundering. The headband shall be secured with a minimum of 4 rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester.

The mopheads shall have a tailband at each end of the mophead, superimposed on one side of the mop yarns and wrapped around for a distance of 1 inch minimum and secured with bartacks. Alternatively, the tape may be completely wrapped around the yarns and the ends bartacked together. The tailband shall be securely stitched to the yarns with not less than two rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester. The tailband shall maintain the yarns in a side-by-side relationship in a flat layer. Tailbands shall be located at a distance of 1-1/2 to 3 inches from each end of the mophead yarns, as measured from the edge of the tailband closest to the end of the yarns.

The mopheads shall conform to the requirements of Table II prior to laundering.

Table II. Physical Requirements.

---

Weight, oz, each:	16 minimum
Yarns/mophead:	200 minimum
Length of yarn, inches:	31 minimum

---

For the purpose of the dimensional stability test below, a lot shall be defined as all mopheads manufactured from the same manufacturing lot of yarn. A signed test report, or Certificate of Conformance, which includes the actual test results from the yarn manufacturer for each lot of yarn, may be used in lieu of the performance of this test.

From each manufacturing lot of yarn, five (5) mopheads shall be individually weighed and the overall lengths measured. The mopheads shall be washed and dried 5 times using the cotton settings on a domestic washer and a domestic dryer, with the wash water and exhaust temperature at 140°F. After completion of the fifth drying cycle, determine the weight and length and calculate the weight loss and shrinkage as a percentage of their starting values. The average weight loss and shrinkage shall not exceed 15% of the original values.

The finished mopheads shall be clean, free of trash, neat in construction and appearance. The mopheads shall have no defects which may affect appearance, durability or serviceability.

Copies of AATCC (Technical Manual of the American Association of Textile Chemists and Colorists) test methods are available from the American Association of Textile Chemists and Colorists, AATCC, 1 Davis Drive, P.O. Box 12215, Research Triangle Park, NC 27709, (919) 549-8141.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

**Unit of Issue** – EA- (One (1) each).

**NSN: 7920-00-926-5494**

MOPHEAD, WET: Shall be wet use, 20 ounce, cut ends, taped 4 or 5 ply, floor cleaning mopheads composed of cotton and synthetic yarns for the mopping of floors using water and commercial cleaners and disinfectants with the following characteristics:

The yarns of the mopheads shall be cotton or cotton blended with rayon, polyester, nylon, acrylic, or a combination of these fibers when tested in accordance with AATCC Test Method 20. The blended yarns shall be of an intimate fiber blend with a cotton content of not less than 30 percent by weight when tested in accordance with AATCC Test Method 20A. Alternate methods to verify these properties are permitted provided they are accurate and repeatable, and are in current industrial use. The yarns shall be free of trash and foreign material, shall have cut ends, and shall meet the requirements as specified in Table I when tested in accordance with ASTM D 2256, Option A, Condition 1. Yarn properties may be certified to, based on test reports from the manufacturer.

Table I. Physical Requirements of Yarns.

---

Characteristics:	
Plies	4 minimum
Yards/lb	190 minimum
Breaking strength	22 lbs minimum

---

The headbands, and the tailbands shall be a woven tape with the edges woven or selvaged. The tape for the headband shall be a minimum of 1-1/4 inches wide, weighing 0.30 ounces per linear yard minimum. The tailband shall be a minimum of 1/2 inches wide.

The thread shall be cotton, nylon, or polyester. The cotton thread shall have a breaking strength of 2.1 pounds minimum when tested in accordance with ASTM D 204. The nylon or polyester thread shall have a breaking strength of 17 pounds minimum when tested in accordance with ASTM D 204.

The yarns of mopheads shall be laid side by side, with the ends cut to the finished length specified. The mophead shall have a headband at the center of the yarns and shall have a tailband near each of the ends.

The mopheads shall have a one-piece headband completely encircling the middle of the evenly distributed yarns with an overlap of 2 inches minimum. The centerline of the headband shall be within plus or minus 3/4 inch of the average midpoint (end to end) of the yarns. The finished mophead shall be 6  $\square$  1/2 inches wide at the headband prior to laundering. The headband shall be secured with a minimum of 4 rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester.

The mopheads shall have a tailband at each end of the mophead, superimposed on one side of the mop yarns and wrapped around for a distance of 1 inch minimum and secured with bartacks. Alternatively the tape may be completely wrapped around the yarns and the ends bartacked together. The tailband shall be securely stitched to the yarns with not less than two rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester. The tailband shall maintain the yarns in a side-by-side relationship in a flat layer. Tailbands shall be located at a distance of 1-1/2 to 3 inches from each end of the mophead yarns, as measured from the edge of the tailband closest to the end of the yarns.

The mopheads shall conform to the requirements of Table II prior to laundering.

Table II. Physical Requirements.

---

Weight, oz, each:	20 minimum
Yarns/mophead:	225 minimum

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Length of yarn, inches:

35 minimum

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For the purpose of the dimensional stability test below, a lot shall be defined as all mopheads manufactured from the same manufacturing lot of yarn. A signed test report, or Certificate of Conformance, which includes the actual test results from the yarn manufacturer for each lot of yarn, may be used in lieu of the performance of this test.

From each manufacturing lot of yarn, five (5) mopheads shall be individually weighed and the overall lengths measured. The mopheads shall be washed and dried 5 times using the cotton settings on a domestic washer and a domestic dryer, with the wash water and exhaust temperature at 140°F. After completion of the fifth drying cycle, determine the weight and length and calculate the weight loss and shrinkage as a percentage of their starting values. The average weight loss and shrinkage shall not exceed 15% of the original values.

The finished mopheads shall be clean, free of trash, neat in construction and appearance. The mopheads shall have no defects which may affect appearance, durability or serviceability.

Copies of AATCC (Technical Manual of the American Association of Textile Chemists and Colorists) test methods are available from the American Association of Textile Chemists and Colorists, AATCC, 1 Davis Drive, P.O. Box 12215, Research Triangle Park, NC 27709, (919) 549-8141.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of issue – EA (each).

**NSN: 7920-00-926-5496**

MOPHEAD, WET: Shall be wet use, 27 ounce, cut ends, taped 4 or 5 ply, floor cleaning mopheads composed of cotton and synthetic yarns for the mopping of floors using water and commercial cleaners and disinfectants with the following characteristics:

The yarns of the mopheads shall be cotton or cotton blended with rayon, polyester, nylon, acrylic, or a combination of these fibers when tested in accordance with AATCC Test Method 20. The blended yarns shall be of an intimate fiber blend with a cotton content of not less than 30 percent by weight when tested in accordance with AATCC Test Method 20A. Alternate methods to verify these properties are permitted provided they are accurate and repeatable, and are in current industrial use. The yarns shall be free of trash and foreign material, shall have cut ends, and shall meet the requirements as specified in Table I when tested in accordance with ASTM D 2256, Option A, Condition 1. Yarn properties may be certified to based on test reports from the manufacturer.

Table I, Physical Requirements of Yarns.

---

Characteristics:	
Plies	4 minimum
Yards/lb	190 minimum
Breaking strength	22 lbs minimum

---

The headbands, and the tailbands shall be a woven tape with the edges woven or selvaged. The tape for the headband shall be a minimum of 1-1/4 inches wide, weighing 0.30 ounces per linear yard minimum. The tailband shall be a minimum of 1/2 inches wide.

The thread shall be cotton, nylon, or polyester. The cotton thread shall have a breaking strength of 2.1 pounds minimum when tested in accordance with ASTM D 204. The nylon or polyester thread shall have a breaking strength of 17 pounds minimum when tested in accordance with ASTM D 204.

The yarns of mopheads shall be laid side by side, with the ends cut to the finished length specified. The mophead shall have a headband at the center of the yarns and shall have a tailband near each each of the ends.

The mopheads shall have a one-piece headband completely encircling the middle of the evenly distributed yarns with an overlap of 2 inches minimum. The centerline of the headband shall be within plus or minus 3/4 inch of the average midpoint (end to end) of the yarns. The finished mophead shall be 6  $\square$  1/2 inches wide at the headband prior to laundering. The headband shall be secured with a minimum of 4 rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester.

The mopheads shall have a tailband at each end of the mophead, superimposed on one side of the mop yarns and wrapped around for a distance of 1 inch minimum and secured with bartacks. Alternatively the tape may be completely wrapped around the yarns and the ends bartacked together. The tailband shall be securely stitched to the yarns with not less than two rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester. The tailband shall maintain the yarns in a side-by-side relationship in a flat layer. Tailbands shall be located at a distance of 1-1/2 to 3 inches from each end of the mophead yarns, as measured from the edge of the tailband closest to the end of the yarns.

The mopheads shall conform to the requirements of Table II prior to laundering.

Table II. Physical Requirements.

---

Weight, oz, each:	27 minimum
Yarns/mophead:	275 minimum
Length of yarn, inches:	38 minimum

---

For the purpose of the dimensional stability test below, a lot shall be defined as all mopheads manufactured from the same manufacturing lot of yarn. A signed test report, or Certificate of Conformance, which includes the actual test results from the yarn manufacturer for each lot of yarn, may be used in lieu of the performance of this test.

From each manufacturing lot of yarn, five (5) mopheads shall be individually weighed and the overall lengths measured. The mopheads shall be washed and dried 5 times using the cotton settings on a domestic washer and a domestic dryer, with the wash water and exhaust temperature at 140°F. After completion of the fifth drying cycle, determine the weight and length and calculate the weight loss and shrinkage as a percentage of their starting values. The average weight loss and shrinkage shall not exceed 15% of the original values.

The finished mopheads shall be clean, free of trash, neat in construction and appearance. The mopheads shall have no defects which may affect appearance, durability or serviceability.

Copies of AATCC (Technical Manual of the American Association of Textile Chemists and Colorists) test methods are available from the American Association of Textile Chemists and Colorists, AATCC, 1 Davis Drive, P.O. Box 12215, Research Triangle Park, NC 27709, (919) 549-8141.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of issue: EA (each).

**NSN: 7920-00-959-3842**

BRUSH, SCRUB (ALL-PLASTIC, STEAM KETTLE): Shall be an all-plastic scrubbing brush for use in cleaning large cooking vats with the following characteristics:

The handle and block shall be composed of plastics suitable for cleaning cooking vessels using hot water and strong cleaning solutions. The filaments shall be composed of nylon or polyester, straight or crimped, 0.022 inch minimum diameter.

The brush shall meet the dimensional requirements of table I and be configured similar to figure 1. The handle shall have a grip. The block shall be cylindrical and of one-piece construction. The handle shall connect to the block equidistant from each end. The filaments shall fan around the block similar to Figure 1 and shall be evenly distributed and cleanly trimmed.

Table I. Dimensional Requirements.

Block:		
Length		4-3/4 inch minimum
Diameter		2 inch minimum
Tuft numbers:		
On cylinder face		112 minimum
On each end		41 minimum
Filament length clear of block:		1-1/4 inch minimum
Handle:		
Length out of block		36 inches minimum
Diameter		15/16 inch minimum

The brush shall be clean and free from defects that may affect serviceability, durability or appearance.

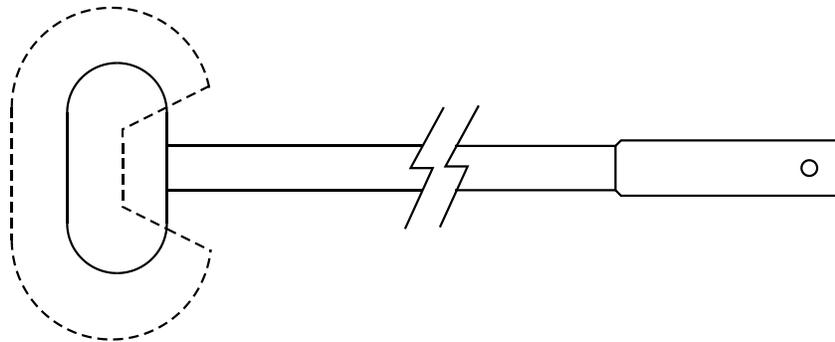


Figure 1

Unit of Issue – EA (each)

**NSN: 7920-00-965-1709**

TOWEL, PAPER (PLASTIC WIPING): Shall be a paper towel intended for use in cleaning, wiping, and polishing soft plastic surfaces. The towels shall have a minimum 37.5 cm (approx. 15 inches) side length with an overall minimum area of 1610 cm<sup>2</sup> (approx. 265 sq. in) with the following characteristics:

The towels shall be 100% paper with 40 to 100% recovered fiber, including a minimum of 40% postconsumer fiber as specified by the EPA Guidelines For Federal Procurement of Paper and Paper Products Containing Recovered Materials (40 CFR 247) and the EPA Paper Products Materials Advisory Notice (Federal Register, Vol. 61, No. 104, May 29, 1996).

Material: The towels shall be soft, highly absorbent and non-abrasive.

Physical properties: The towels shall have the physical properties specified by Table I.

Table I. Physical Properties.

Property:	Value:	Test Method: (1)
Grammage	43 g/m <sup>2</sup>	TAPPI T 410
Tensile strength:		
Dry:		
Machine direction	2.74 N/cm minimum	TAPPI T 404 or 494
Cross direction	1.32 N/cm minimum	TAPPI T 404 or 494
Wet:		
Machine direction	0.55 N/cm minimum	TAPPI T 456 & 2.2.1.3
Cross direction	0.33 N/cm minimum	TAPPI T 456 & 2.2.1.3
Ash content	2.5 percent maximum	TAPPI T 413
Absorption rate:		
0.1 ml water	15 seconds maximum	TAPPI T 432
0.1 ml oil	45 seconds maximum	TAPPI T 432 (2)
Total absorption:		
Water	450 percent minimum	Para. 2.2.1.1
Oil	175 percent minimum	Para. 2.2.1.2

1 In event of dispute, test samples shall be conditioned in accordance with TAPPI T 402.

2 Use 0.1 ml of white mineral oil, viscosity 80-90 SU (Saybolt Universal) in lieu of water.

Total Absorption: The towels shall have the absorbency capacity required by Table I. The test for this shall be as follows:

Water: Cut specimens (10 cm x 10 cm is recommended) and weigh to nearest 0.1 g. Entirely immerse each sample in distilled water at 25°C for 3 minutes without movement. Remove by lifting at one corner until entire specimen is clear of the water, allow excess water to drain off for 60 seconds. Place each in a tared weighing bottle and reweigh. Calculate the percent absorption to the nearest 1 percent as follows:

$$\text{Percent absorption} = [(\text{Wet weight} - \text{dry weight}) / \text{dry weight}] \times 100$$

Oil: Test the same as 2.2.1.1, except using white mineral oil, viscosity 80-90 SU (Saybolt Universal) in lieu of water. The drain time shall be 20 minutes.

Accelerated aging test: Before testing for wet tensile strength in accordance with TAPPI T456, the samples shall be placed in a 105° oven for 10 minutes.

Size: Unless otherwise specified, the area of each towel shall be not less than 1610 cm<sup>2</sup> with the sides not less than 37.5 cm long.

Construction: The towels shall be not less than 3 plies, the plies joined by mechanical means. The joining shall be sufficient to show resistance to separation.

Workmanship: The towels shall be soft, pliable, smooth, and clean. The towels shall not contain holes, tears, cuts, wrinkles, dirt, or foreign material which will adversely affect the appearance or serviceability of the towels. The towels shall be usable for cleaning plexiglass, acrylic sheets, and aircraft canopies using non-abrasive liquid cleaning solutions or water without scratching the surface being cleaned.

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all **PRIME** program items.

**PREPARATION FOR DELIVERY:** The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of issue - BX (Box of 1,350 towels (15 packages of 90 towels each)).

**NSN: 7920-00-965-4886**

**BROOM, PUSH (FLOOR, SWEEPING (WITHOUT HANDLE)):** Shall be an 18 inch, medium polypropylene filament, floor sweeping brush, with filler set in wood or plastic blocks, without handle with the following characteristics:

**Block:** The block shall be wood or plastic at the manufacturer's option. Wood blocks shall be fine textured, close and straight grained hardwood and shall have least one coat of clear protective finish. Plastic blocks shall be general purpose impact resistant plastic molding material commercially used for floor brushes. The block shall have rounded or beveled edges and ends. The block may be one or two piece construction. The two piece block shall be used only for wire drawn brushes. The two piece block shall be fastened together with rivets, or bolts using lock washers and nuts or washers and locknuts. Two ACME threaded holes shall be provided for handles in the top of each block, centered longitudinally. The holes shall be drilled at an angle of  $45^\circ \pm 10^\circ$  from the vertical through the block, or to a minimum depth of 1-1/16 inch. Each hole shall be threaded with an ACME thread having 5 threads per inch.

**Wire:** Drawing or staple wire used shall be wire normally used for floor brushes.

**Filler:** The brush filler shall be as specified. The weight of the trimmed filler material in each brush shall be as specified in Table I, and shall be the filler as removed from the end item. The synthetic filaments shall be feathered at the ends.

**Filament:** The brushes shall be made from medium polypropylene filament. Medium polypropylene filament shall be a level or crimped polypropylene filament with a round cross-section and an average diameter of  $0.0140 \pm 0.0005$  inch. The color shall be the manufacturer's option.

**Construction:** The construction of the brushes shall conform to the requirements specified in Table I and shall appear similar to Figure 1. The brushes shall be either staple set or wire drawn. The tufts shall not loosen, break, or pull out of the brush when pulled by hand.

Table I. Physical Requirements.	
Characteristic:	Requirement:
Block:	
Length, inches, minimum	17-3/4
Width, inches, minimum	2-7/16
Thickness:	
Wood, inch, minimum	15/16

Plastic, inch, minimum	7/8
Tuft holes:	
Number	196
Depth, inch, minimum	5/16
Filament:	
Length, clear of block, inches, minimum	3
Weight per brush, ounces, minimum	9-3/4

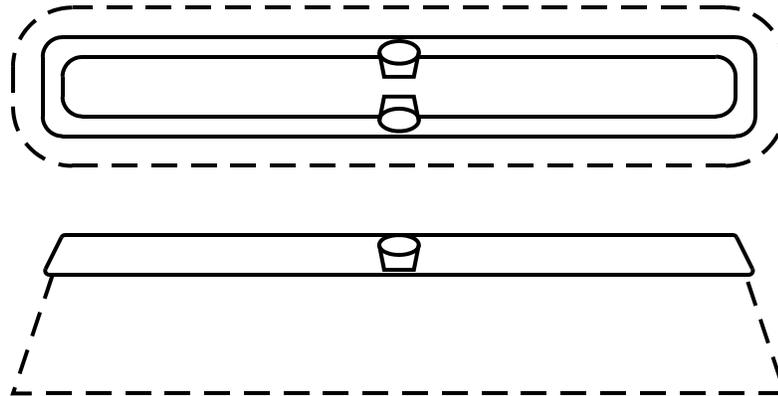


Figure 1.

Trim: The finished brush filler material shall be evenly and uniformly trimmed to conform to the dimensional requirements of the finished brushes.

Workmanship: The brushes shall be free from defects which may affect their serviceability, durability or appearance. All surfaces shall be neatly constructed and finished and shall have no sharp edges. Wood blocks shall be free of splinters and of torn or loose grain. Plastic blocks shall be free from voids or channels. The filler material shall be free from foreign matter.

Unit of Issue – EA (Each).

**NSN: 7920-00-998-2484**

MOPHEAD, DUSTING, COTTON: Shall be a mophead with an overall sweep of 13 inch X 44 inch for use with a 36 inch X 5 inch wide rounded frame. The dust mops are intended to be used to remove dust from smooth floors with the following characteristics:

The mophead base cloth shall be any fabric meeting the requirements of Table I. The cloth shall be natural or bleached and shall be dye free. The finished cloth shall be free of holes and other defects that affect appearance or may affect serviceability.

Table I. Cloth Physical Characteristics.

Characteristic:	Value:	Test Method:
Breaking strength:		
Warp	105 lbs, minimum	ASTM D 5034
Fill	75 lbs, minimum	ASTM D 5034
Shrinkage	3% maximum	AATCC 150 or 135

The mophead yarns shall be composed of cotton or cotton synthetic blend. If the yarn is a blend, it shall contain no less than 80% cotton. The mophead yarns shall meet the requirements of Table II. The yarns shall be natural or bleached and shall be dye free.

Table II. Yarn Physical Characteristics.

Characteristic:	Value:	Test Method:
Yards per pound:	500, +/- 50	ASTM D 204
Plies of yarn:	4	Visual
Twists per inch:	2.25, minimum	Visual
Breaking strength	10 lbs, minimum	ASTM D 2256

The thread used shall have a minimum breaking strength of 4 lbs, the color shall be optional.

The material used for binding shall meet the same requirements as the base cloth.

Tape for the ties shall be of tubular braid material. The tape shall be a minimum of 1/4 inch wide. Each tape shall have a minimum of 8 inches free after assembly to the mophead. The tape shall be natural or bleached color and shall be dye free.

The mophead shall be constructed from two pieces of base cloth to which the yarns are attached. One base cloth piece shall form the bottom and the other piece shall form the top and have an opening for the frame, the two pieces shall be sewn together at the perimeter. The bottom shall have two (minimum) parallel rows of yarn sewn to it, the use of strips of self material is optional. Yarn shall also be sewn around the outer perimeter of the assembly. All of the yarns shall be sewn to the cloth in a looped-end construction method, with no cut ends of yarn free. The loops of yarns shall extend a minimum of 2 inches from the cloth. The top piece shall have a round centered opening with a slit extending from the center opening to one end. All exposed edges of the frame opening shall be bound with the binding specified, the outer edges of the cloth shall be serge stitched or bound with binding tape.

The mopheads shall have a pair of tie tapes adjacent to the center opening. The mopheads shall have at least two more pairs of tie tapes evenly spaced along the opening for the frame. The mopheads shall be configured to accept wide round ended frames. The mopheads shall be sized to permit the frames to be easily inserted with allowance for 3% shrinkage.

The mopheads shall weigh 16 pounds per dozen minimum when 12 randomly chosen mops are weighed together.

The mopheads shall be complete and functional and shall be free of any defects that may affect appearance, durability or serviceability. All mophead yarn loops shall be securely caught by the sewing.

This NSN is used with NSN 7920-00-851-0140, Handle and Frame for Dusting Mop.

Unit of issue - EA (each).

**NSN 7920-01-004-7847**

CLOTH, CLEANING (COTTON, LOW-LINT): Shall be in accordance with the "latest revision" of Society of Automotive Engineers Aerospace Material Specification SAE-AMS3819 with the following characteristics.

**Products qualified under SAE Aerospace Standard AMS3819 required.**

Class 1: Virgin cloth, composed of 100% cotton fibers, with or without added binders.

Grade A: For use in cleaning operations where exceptionally low residual surface contamination levels are require.

Form 1: Dry cloths (in individual wipes or rolls)

Size: 207 square inches overall minimum, as pulled free of the roll, with the sheet width dimension at least 9 inches.

Weight: Net weight (less core) of each roll of 100 cloths shall be 1.95 pounds minimum.

MARKING: Shipments to GSA and other civilian agencies shall be marked in accordance with FED-STD-123. Shipments to the Department of Defense (DOD) shall be marked in accordance with MIL-STD-129.

EXCEPTIONS TO SAE-AMS 3819A:

Delete paragraph 5.1.5. Packaging and packing shall be as specified below:

PACKAGING: The cloths shall be packaged in rolls containing 100 cloths. The rolls shall be packaged in a plastic wrap or bag and sealed (see exception to FED-STD-123 MARKING below).

EXCEPTION FED-STD-123: Each roll shall be marked to signify conformance with SAE (AMS) 3819 regardless of the presence UPC code.

Unit of issue – RO (roll of 100 cloths).

**NSN: 7920-01-162-6064**

PAD, SCOURING, GRIDDLE: Griddle scouring screen, open mesh weave of spun glass 14 ( $\pm$  1) filaments per inch by 16 ( $\pm$  1) filaments per inch, coated with 100% aluminum-oxide abrasive, bonded by a heat resistant adhesive. The screen shall be suitable for use on food preparing griddles at cooking temperatures without any deterioration or release of toxic chemicals. The screen shall not support combustion: After being held over the flame from a cigarette lighter for a minimum of 10 seconds and removed, the screen shall self-extinguish within 5 seconds.

Size 5-1/2 ( $\pm$  1/4) inches long, 4 ( $\pm$  1/4) inches wide, minimum weight 7 grams. For use with pad holder NSN 7920-01-222-7798.

The scouring screens shall be 3M Part Number 200, or made from 3M produced or equivalent material.

Unit of Issue – BX (Box containing 200 scouring screens).

**NSN: 7920-01-177-3633**

TOWEL, MACHINERY WIPING: Disposable towels shall be of non-woven synthetic polypropylene microfibers, bonded by heat and pressure. The towels shall be consistent in size, soft and pliable, nonabrasive, strong and durable when wet or dry, highly absorbent, chemically inert, and low linting. The towels shall measure 11-1/2 inches (minimum) by 16 inches (minimum), and may be surfactant treated. The towels shall have a rough texture imparted during the bonding process and shall not have a glossy or slippery finish. The towels shall conform to the following minimum requirements when tested as specified except that conditioning in accordance with standard atmospheric conditions shall apply only in case of dispute:

Minimum Requirements:

Weight: 1.5 ounces/square yard - as determined by TAPPI T410

Trap Tear Strength: 1.0 pound - as determined by ASTM D1117

Absorption:

Water: 300% - as determined by method C, below.

Oil: 300% - as determined by method D, below.

Test Method C: Weigh each specimen of size 4 inch x 4 inch. Immerse in distilled water at 25 degrees Centigrade for 3 minutes. Remove by lifting at one corner until entire specimen is clear of the water, allow excess water to drain off for 60 seconds. Place each in a tared weighing bottle and reweigh. Calculate the percent absorption to the nearest 1 percent as follows:  
Percent absorption = [(Wet weight - dry weight)/ dry weight] x 100

Test Method D: Same as method C using white mineral oil, 80-90 SU (Saybolt Universal) viscosity, +30 Saybolt color, N.F. grade, in lieu of water. Drain time for each sample shall be changed to 20 minutes.

The issue of each TAPPI and ASTM test method in effect on the date of the solicitation shall be used to determine compliance with these requirements. TAPPI publications are available from the Technical Association of the Pulp and Paper Industry, One Dunwoody Park, Atlanta, GA 30341. ASTM publications are available from ASTM, 1916 Race Street, Philadelphia, PA 19103.

If the bidder intends to supply a product that is not either Kimberly-Clark part number 33350 or made from the same Kimberly-Clark material, the bidder shall supply bid samples consisting of one box of 150 towels of the product they intend to supply at the time of bidding. Bid samples will be evaluated for their utility as described below. Bid sample acceptance does not relieve the contractor from conforming with all physical requirements of this purchase description, the contractor shall be prepared to provide proof as required by the contract.

The bid samples will be evaluated in comparison with the specified Kimberly-Clark product by a three (3) person panel as follows, the tests shall be made in such a manner that one panel member cannot influence the determination of the others:

1. Feel. Blindfolded, each panel member will be handed a Kimberly-Clark towel for reference and informed that it is the reference material, this material may be retained as necessary for reference. Each panel member will then be handed each of the samples one at a time and allowed to feel the towel as long as required. The panel shall determine whether the sample towel is similar to the reference material in regards to roughness, flexibility, and feel. Towels not evaluated as similar shall be rejected.

2. Hand use (blindfold not required). The panel members shall be supplied with a container of axle grease, a flat clean surface, a sufficient quantity of the reference Kimberly-Clark towels, and the samples. Using their hands, the panel members shall place a small quantity of grease on the surface and spread it around. Using first the reference material and then the sample material, the panel members shall wipe their hands clean first and then wipe the surface clean. Samples not able to remove as much grease from the hands or the surface, with approximately the same amount of force as required to perform the same quality task using the reference material, shall be rejected.

The box of towels shall be Kimberly-Clark P/N 33350 or equal (supplied by Horizon Industries).

Unit of issue – BX (one-hundred fifty (150) towels per box).

**NSN: 7920-01-180-0556**

CLOTH, CLEANING: Shall be in accordance with Federal Specification CCC-C-46D dated 19 April 2001 (Notice 2-Inactivation) with the following characteristics:

Type I: Untreated / Nonwoven

Class 7: Aircraft solvent wiper / mechanical entanglement, No binders

Size: 8-3/4 inches by 8-3/4 inches (minimum)

NOTE: The unit of issue (and basis for bid) is a shipping container of 18 dispenser boxes, each dispenser box holding 150 cloths (2,700 total cloths). Special packaging and packing instructions below:

**PACKAGING:** Each cloth shall be C-folded and the sheets stacked, or interfolded for pop-up packaging. 150 cloths shall be packaged in a dispenser box. The dispenser box shall be a close fitting cardboard or paperboard box and shall have a perforated and removable section that forms an opening that will allow easy removal of individual cloths and allow the box to provide protection to the cloths remaining in the box.

**PACKING:** Eighteen (18) dispenser boxes (2700 cloths) shall be packed in a close-fitting corrugated fiberboard box, minimum burst strength 200 psi, or minimum edge crush strength 32 lb per inch width. Boxes shall conform to the applicable mode of transportation.

Unit of Issue – BX (Two-thousand and seven-hundred (2,700) cloths per box).

**NSN: 7920-01-180-0557**

**CLOTH, CLEANING:** Shall be in accordance with Federal Specification CCC-C-46D dated September 30, 1986, and Amendment 2 dated July 15, 1999, with the following characteristics:

Type I: Untreated

Class 7: Aircraft solvent wiper

Size: 16-3/4 inches by 19-1/4 inches (minimum)

**NOTE:** The unit of issue (and basis for bid) is a shipping container of 8 dispenser boxes, each dispenser box holding 100 cloths (800 total cloths).

**EXCEPTIONS TO CCC-C-46D:**

1. Paragraph 4.3.2, third sentence, delete and replace with the following: "Install #10 machine screws, cross recessed, 100° countersunk head, of sufficient length, and secure with nuts."
2. Delete Section 5. Packaging and packing shall be as specified by this IPD, below:

**PACKAGING:** An average of one-hundred (100) cloths shall be folded and packaged in a fiberboard box in a manner to allow 'pop-up' removal of the cloths one at a time. No package shall contain less than 99 cloths.

**PACKING:** Eight (8) 'pop-up' boxes (800 cloths total) packaged as specified and packed in a close-fitting box.

Unit of issue – BX (eight hundred (800) cloths per box).

**NSN: 7920-01-222-7798**

**KIT, GRIDDLE CLEANING:** Each holder kit shall contain 1 griddle pad holder (item A below), 1 scouring pad (item B below), and 20 scouring screens (item C below).

Item A:

The griddle pad holder shall be a plastic handle fastened to a metal base plate, 0.060 inches thick. The base plate shall contain stamped out protrusions designed to hold the pads or screens while in use. The base plate size shall be 5.25 inches long by 4 inches wide ( $\pm$  1/8 inch). For use with replacement screens NSN 7920-01-162-6064 and replacement pads NSN 7920-00-891-7537.

Item B: (NSN 7920-00-891-7537)

Nylon, open textured web scouring pad. The pad filaments shall be coated with 100% aluminum oxide abrasive cleaning particles bonded to the filaments by a heat-resistant adhesive. The pad shall be suitable for use on food preparing griddles at cooking temperatures without any deterioration or release of

toxic chemicals. The pad materials shall not support combustion: After being held over the flame from a cigarette lighter for a minimum of 10 seconds and removed, the pad shall self-extinguish within 5 seconds.

Size: 5-1/4 (+/- 1/8) inches long, 4 (+/- 1/8) inches wide, and 1/2 (+/- 1/8) inch thick, rectangular in shape, 14 g minimum weight. Not soap impregnated. For use with holder NSN 7920-01-222-7798.

The pads shall be 3M part number 46, or made from 3M produced or equivalent material.

Item C: (NSN 7920-01-162-6064)

Griddle scouring screen, open mesh weave of spun glass 14 (+/- 1) filaments per inch by 16 (+/- 1) filaments per inch, coated with 100% aluminum-oxide abrasive, bonded by a heat resistant adhesive. The screen shall be suitable for use on food preparing griddles at cooking temperatures without any deterioration or release of toxic chemicals. The screen shall not support combustion: After being held over the flame from a cigarette lighter for a minimum of 10 seconds and removed, the screen shall self-extinguish within 5 seconds.

Size: 5-1/2 (+/- 1/4) inches long, 4 (+/- 1/4) inches wide, minimum weight 7 grams.  
For use with pad holder NSN 7920-01-222-7798.

The scouring screens shall be 3M Part Number 200, or made from 3M produced or equivalent material. 20 screens shall be included with each holder kit.



(Image is representational and intended only as a guide)

Unit of issue – KT (kit).

**NSN: 7920-01-233-0483**

TOWEL, MACHINERY WIPING: Disposable towels shall be of non-woven synthetic polypropylene microfibers, bonded by heat and pressure. The towels shall be consistent in size, soft and pliable, nonabrasive, strong and durable when wet or dry, highly absorbent, chemically inert, and low linting. The towels shall measure 11-1/2 inches (minimum) by 16 inches (minimum), and may be surfactant treated. The towels shall have a rough texture imparted during the bonding process and shall not have a glossy or slippery finish. The towels shall conform to the following minimum requirements when tested as specified except that conditioning in accordance with standard atmospheric conditions shall apply only in case of dispute:

Minimum Requirements:

Weight: 1.5 ounces/square yard - as determined by TAPPI T410

Trap Tear Strength: 1.0 pound - as determined by ASTM D1117

Absorption:

Water: 300% - as determined by method C, below.

Oil: 300% - as determined by method D, below.

Test Method C: Weigh each specimen of size 4 inch x 4 inch. Immerse in distilled water at 25 degrees Centigrade for 3 minutes. Remove by lifting at one corner until entire specimen is clear of the water, allow excess water to drain off for 60 seconds. Place each in a tared weighing bottle and reweigh. Calculate the percent absorption to the nearest 1 percent as follows:  
Percent absorption = [(Wet weight - dry weight)/ dry weight] x 100

Test Method D: Same as method C using white mineral oil, 80-90 SU (Saybolt Universal) viscosity, +30 Saybolt color, N.F. grade, in lieu of water. Drain time for each sample shall be changed to 20 minutes.

The issue of each TAPPI and ASTM test method in effect on the date of the solicitation shall be used to determine compliance with these requirements. TAPPI publications are available from the Technical Association of the Pulp and Paper Industry, One Dunwoody Park, Atlanta, GA 30341. ASTM publications are available from ASTM, 1916 Race Street, Philadelphia, PA 19103.

If the bidder intends to supply a product other than Kimberly-Clark part number 33651 or made from the same Kimberly-Clark material, the bidder shall supply bid samples consisting of one dispenser box of 50 towels of the product they intend to supply at the time of bidding. Bid samples will be evaluated for their utility as described below. Bid sample acceptance does not relieve the contractor from conforming with all physical requirements of this purchase description, the contractor shall be prepared to provide proof as required by the contract.

The bid samples will be evaluated in comparison with the specified Kimberly-Clark product by a three (3) person panel as follows, the tests shall be made in such a manner that one panel member cannot influence the determination of the others:

1. Feel. Blindfolded, each panel member will be handed a Kimberly-Clark towel for reference and informed that it is the reference material, this material may be retained as necessary for reference. Each panel member will then be handed each of the samples one at a time and allowed to feel the towel as long as required. The panel shall determine whether the sample towel is similar to the reference material in regards to roughness, flexibility, and feel. Towels not evaluated as similar shall be rejected.

2. Hand use (blindfold not required). The panel members shall be supplied with a container of axle grease, a flat clean surface, a sufficient quantity of the reference Kimberly-Clark towels, and the samples. Using their hands, the panel members shall place a small quantity of grease on the surface and spread it around. Using first the reference material and then the sample material, the panel members shall wipe their hands clean first and then wipe the surface clean. Samples not able to remove as much grease from the hands or the surface, with approximately the same amount of force as required to perform the same quality task using the reference material, shall be rejected.

The box of towels shall be Kimberly Clark Kimtex, part number 33651, or equal.

The unit of issue shall be a box of 300 towels (case of 6 dispenser boxes, each containing 50 towels).

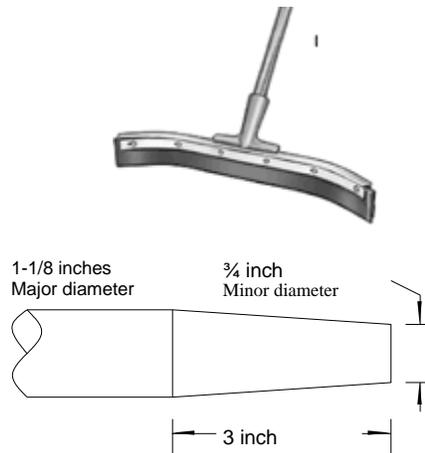
Unit of issue: – BX (three-hundred (300) towels per box).

**NSN: 7920-01-338-3328**

SQUEEGEE, FLOOR: Single ply curved rubber blade floor squeegee with the following characteristics:

The floor squeegee shall have a 36 inch wide steel frame and single ply replaceable rubber blade. The blade shall be 9/32" thick minimum and the metal frame shall curve forward at both ends similar to the representative drawing below. The squeegee shall incorporate a socket which will accept a tapered end handle similar to the representative drawing below.

Handle not included. All metal parts shall be coated or electroplated to resist corrosion.



Unit of Issue – EA (Each).

**NSN: 7920-01-343-3776**

**MOPPING OUTFIT, FLOOR:** The outfit shall have the following characteristics:

Shall be a floor mopping outfit consisting of a bucket with castors and a compatible wringer.

The bucket shall be:

- Size: 26 to 35 quarts
- Material: Plastic
- Corrosion-resistant metal bail
- Four swivel casters
- Color: Yellow

The wringer shall be:

- Size: for 12-32 oz mop
- Type: Sideward press
- Material: Plastic
- Corrosion-resistant metal handles and hardware
- Color: Yellow



(Image is representational and intended only as a guide.)

**WORKMANSHIP:** The mop bucket and wringer shall be clean and free from flash, molding imperfections, blisters, areas of delamination, dimples or contamination. All surfaces shall be smooth, free from rough or sharp edges or corners, and uniform in finish and color. The mop bucket and wringer shall be free from any defects that may affect its serviceability, durability or appearance.

Unit of issue – OT (outfit).

**NSN: 7920-01-368-1622**

RAG, WIPING: Mighty-Nice-Rags P/N 1G, or equal, with the following requirements and characteristics:

The item shall be white, new 100% jersey knit cotton cloth. The cloth shall be a minimum of 18" X 18" and the edges shall be as cut. The cloth shall be lint free.

Suitable for general cleaning of oil and grease in machining applications, including pre-cleaning 120MM gun barrels prior to chrome plating.

Unit of issue: BX (25-lb box)

**NSN: 7920-01-370-1364**

**TOWEL, MACHINERY WIPING, REINFORCED (DECOMPOSABLE):** The towels shall have a minimum 24 cm (approx. 9-1/2 inches) side length with an overall minimum area of 1032 cm<sup>2</sup> (approx. 160 square inches), heavy duty, nonwoven industrial strength paper towels with the following characteristics:

The towels shall be 100% paper with 40 to 100% recovered fiber, including a minimum of 40% postconsumer fiber as specified by the EPA Guidelines For Federal Procurement of Paper and Paper Products Containing Recovered Materials (40 CFR 247) and the EPA Paper Products Materials Advisory Notice (Federal Register, Vol. 61, No. 104, May 29, 1996).

Towels described by this description are intended for general cleaning, polishing and wiping, on dry, wet, and oily surfaces.

The towels shall meet the requirements of table I and shall be of 3 ply (minimum) construction with a mesh reinforcement. The mesh shall be constructed in such a manner that it is not woven and is not bonded to itself prior to lamination so that when the laminated paper is removed it shall not form a cohesive net. The entire assembly shall decompose when tested as specified below:

Specimens approximately 21.5 by 28 cm shall be cut from the samples to be tested. In separate 9 inch x 11 inch, 1-1/2" deep disposable aluminum pans, each sample shall be buried in commercial potting soil with 1% by weight organic plant fertilizer (3-5-1) and 1% by weight bacteria (Hy-yield stump removal compound), the mixture shall be thoroughly mixed together just prior to burying the sample. The mixture shall be enough to form a 1-1/4 inch deep layer of mixture in each pan. The specimens shall be irregularly buried so that some edges show above the mixture and some areas are covered by as much as 1 inch of mixture. No water is to be added to the mixture. Upon burying the specimens, each pan shall be sealed in polyethylene bags and stored in the dark at room temperature (20°C to 23°C) for ten days. After this time has passed, the bags shall be opened and the specimens examined. The specimens shall have no evidence of perceptible strength of either the paper or the mesh that has been buried. Any perceptible or measurable strength of the any of the buried paper or mesh specimens shall be cause for rejection of the lot. This test shall be performed to establish that the towel's construction and materials are decomposable and need not be performed on each production lot. The test shall be performed prior to the first delivery to the government and thereafter if any change is made to the construction or materials of the towels.

Table I. Physical Characteristics.

Characteristic:		TAPPI Test Method:
Grammage (g/m <sup>2</sup> , minimum):	65.0	T410
Tensile strength:		
Dry (N/m, minimum)	383	T494

Wet (N/m, minimum)	274	T456 <sup>1</sup>
Absorption rate (sec., max.):		
Water	8	T432
Total Absorption, % of dry wt.(min):		
Water	500	SEE BELOW
Oil	200	SEE BELOW

<sup>1</sup> Samples shall be conditioned in an oven at 105°F for 4 minutes prior to testing.

Water absorption: Cut specimens (10 cm x 10 cm is recommended) and weight to nearest 0.1 g. Entirely immerse each sample in distilled water at 25°C for 3 minutes without movement. Remove by lifting at one corner until entire specimen is clear of the water, allow excess water to drain off for 60 seconds. Place each in a tared weighing bottle and reweigh. Calculate the percent absorption to the nearest 1 percent as follows:

$$\text{Percent absorption} = [(\text{Wet weight} - \text{dry weight})/\text{dry weight}] \times 100$$

Oil absorption: Same as water absorption using white mineral oil, viscosity 80-90 SU (Saybolt Universal), in lieu of water. Drain time is 20 minutes.

The towels shall be free from holes, tears, dirt, spots, ragged or uneven edges, or any other defects that affect serviceability.

TAPPI documents are available from TAPPI, 15 Technology Parkway South, Norcross, GA 30092, (404) 446-1400.

Unit of issue - BX (four hundred towels per box).

**NSN: 7920-01-370-1365**

**TOWEL, MACHINERY WIPING, REINFORCED (DECOMPOSABLE):** The towels shall have a minimum 24 cm (approx. 9-1/2 inches) side length with an overall minimum area of 1387 cm<sup>2</sup> (approx. 215 square inches), heavy duty, nonwoven industrial strength paper towels with the following characteristics:

The towels shall be 100% paper with 40 to 100% recovered fiber, including a minimum of 40% postconsumer fiber as specified by the EPA Guidelines For Federal Procurement of Paper and Paper Products Containing Recovered Materials (40 CFR 247) and the EPA Paper Products Materials Advisory Notice (Federal Register, Vol. 61, No. 104, May 29, 1996).

Towels described by this description are intended for general cleaning, polishing and wiping, on dry, wet, and oily surfaces.

The towels shall meet the requirements of Table I and shall be of 3 ply (minimum) construction with mesh reinforcement. The mesh shall be constructed in such a manner that it is not woven and is not bonded to itself prior to lamination so that when the laminated paper is removed it shall not form a cohesive net. The entire assembly shall decompose when tested as specified below.

Specimens approximately 21.5 by 28 cm shall be cut from the samples to be tested. In separate 9 inch x 11 inch, 1-1/2" deep disposable aluminum pans, each sample shall be buried in commercial potting soil with 1% by weight organic plant fertilizer (3-5-1) and 1% by weight bacteria (Hy-yield stump removal compound), the mixture shall be thoroughly mixed together just prior to burying the sample. The mixture shall be enough to form a 1-1/4 inch deep layer of mixture in each pan. The specimens shall be irregularly buried so that some edges show above the mixture and some areas are covered by as much as 1 inch of mixture. No water is to be added to the mixture. Upon burying the specimens, each pan shall be sealed in polyethylene bags and stored in the dark at room temperature (20°C to 23°C) for ten days. After this time has passed, the bags shall be opened and the specimens examined. The

specimens shall have no evidence of perceptible strength of either the paper or the mesh that has been buried. Any perceptible or measurable strength of the any of the buried paper or mesh specimens shall be cause for rejection of the lot. This test shall be performed to establish that the towel's construction and materials are decomposable and need not be performed on each production lot. The test shall be performed prior to the first delivery to the government and thereafter if any change is made to the construction or materials of the towels.

Table I. Physical Characteristics.

Characteristic:	TAPPI Test Method:	
Grammage (g/m <sup>2</sup> , minimum):	65.0	T410
Tensile strength:		
Dry (N/m, minimum)	383	T494
Wet (N/m, minimum)	274	T456 <sup>1</sup>
Absorption rate (sec., max.):		
Water	8	T432
Total Absorption, % of dry wt.(min):		
Water	500	SEE BELOW
Oil	200	SEE BELOW

<sup>1</sup> Samples shall be conditioned in an oven at 105°F for 4 minutes prior to testing.

Water absorption: Cut specimens (10 cm x 10 cm is recommended) and weight to nearest 0.1 g. Entirely immerse each sample in distilled water at 25°C for 3 minutes without movement. Remove by listing at one corner until entire specimen is clear of the water, allow excess water to drain off for 60 seconds. Place each in a tared weighing bottle and reweigh. Calculate the percent absorption to the nearest 1 percent as follows:

$$\text{Percent absorption} = [(\text{Wet weight} - \text{dry weight}) / \text{dry weight}] \times 100$$

Oil absorption: Same as water absorption using white mineral oil, viscosity 80-90 SU (Saybolt Universal), in lieu of water. Drain time is 20 minutes.

The towels shall be free from holes, tears, dirt, spots, ragged or uneven edges, or any other defects that affect serviceability.

TAPPI documents are available from TAPPI, 15 Technology Parkway South, Norcross, GA 30092, (404) 446-1400.

Unit of issue - BX (four hundred towels per box).

**NSN: 7920-01-436-8325**

TOWEL, PAPER: New Pig, Heavy Duty Maintenance Wiper, P/N WIP306 or equal, with the following requirements and characteristics:

The wiper shall be heavy-duty that resists tearing, stands up to solvents and is low-linting. The wiper shall not contain chemical binders or adhesives. The product shall stay strong when wet and can be used in place of shop towels and scrap rags. The wiper shall be textured for softness. The towel shall be a cellulose/polyester blend. Approximate size: 16.75'L X 9.75"W.

Unit of issue – BX (Six (6) containers of one-hundred twenty-five (125) towels per box).

**NSN: 7920-01-437-8636**

MOPHEAD, WET: Shall be wet use, 16 ounce, looped ends, floor cleaning mopheads composed of cotton and synthetic yarns for the mopping of floors using water and commercial cleaners and disinfectants with the following characteristics:

The yarns shall be any commercial mophead yarn material that meets the requirements of table I. The yarns shall be white or natural. Yarn properties may be certified, based on test reports from the manufacturer.

The headbands shall be a woven tape with the edges woven or selvaged. The tape for the headband shall be a minimum of 1-1/4 inches wide, weighing 0.30 ounces per linear yard minimum. The tailband shall be a minimum of 1/2 inches wide.

The thread for all mopheads shall be cotton, nylon, or polyester. The cotton thread shall have a breaking strength of 2.1 pounds minimum when tested in accordance with ASTM D 204. The nylon or polyester thread shall have a breaking strength of 17 minimum when tested in accordance with ASTM D 204.

The yarns of the mopheads shall be looped end to end so that no cut yarns are free or visible. The mophead shall have a headband at the center of the yarns and a tailband near each of the ends.

The mopheads shall have a one-piece headband completely encircling the middle of the evenly distributed yarns with an overlap of 2 inches minimum. The centerline of the headband shall be within plus or minus 3/4 inch of the average midpoint (end to end) of the yarns. The finished mophead shall be 6  $\square$  1/2 inches wide at the headband prior to laundering. The headband shall be secured with a minimum of 4 rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester.

The mopheads shall have a tailband at each end of the mophead, superimposed on one side of the mop yarns and wrapped around for a distance of 1 inch minimum and secured with bartacks. Alternatively the tape may be completely wrapped around the yarns and the ends bartacked together. The tailband shall be securely stitched to the yarns with not less than two rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester. The tailband shall maintain the yarns in a side-by-side relationship in a flat layer. Tailbands shall be located at a distance of 1-1/2 to 3 inches from each end of the mophead yarns, as measured from the edge of the tailband closest to the end of the yarns.

Mopheads shall conform to the requirements of Table I. Weight, length and width shall be measured prior to laundering.

Table I. Physical requirements.

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Finished Mopheads:	
Weight, oz, each	16 minimum
Length (loop end to loop end)	34 $\pm$ 3
Width at tailband, inches	13 minimum
Dimensional stability	15% maximum shrinkage
Total absorption	300% minimum
Water release	30% minimum
Yarns:	
Yards/pound	125 minimum(ASTM D 204)
Breaking strength	45 lbs min.(ASTM D 204)

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For the purpose of the dimensional stability test, and the absorption/release test below, a lot shall be defined as all mopheads manufactured from the same manufacturing lot of yarn. A signed test report, or Certificate of Conformance, which includes the actual test results from the yarn manufacturer for each lot of yarn, may be used in lieu of the performance of these tests.

From each manufacturing lot of yarn, five (5) mopheads shall be individually weighed and the overall lengths measured. The mopheads shall be washed and dried 5 times using the cotton settings on a domestic washer and a domestic dryer, with the wash water and exhaust temperature at 140°F. After completion of the fifth drying cycle, determine the weight and length and calculate the weight loss and shrinkage as a percentage of their starting values. The average weight loss and shrinkage shall not exceed 15% of the original values.

From each manufacturing lot of yarn, five (5) mopheads shall be tested for absorption. Mopheads used in this test shall be laundered as specified above prior to testing (use of the mopheads tested for dimensional stability above is acceptable). After weighing, immerse each mophead in tap water at room temperature (70 +/- 2°F) until saturated. The mophead shall be removed from the water and allowed to drip until individual drops begin to form. The mophead shall be weighed and total the absorption calculated as the percentage of wet weight compared to the dry weight after laundering. The mophead shall then be subjected to the water release test below.

Mopheads that have been saturated and weighed in accordance with the above paragraph, shall be placed in a downward pressure mop wringer of size appropriate for the mop being tested, and compressed 3 times, 30 seconds each time. Reweigh the mophead and calculate the water released as a percentage of the weight measured at the end of the absorption test.

The finished mopheads shall be clean, free of trash, neat in construction and appearance. The mopheads shall have no defects which may affect appearance, durability or serviceability.

Unit of issue - EA (each).

**NSN: 7920-01-437-9810**

MOPHEAD, WET: Shall be wet use, 24 ounce, looped ends, floor cleaning mopheads composed of cotton and synthetic yarns for the mopping of floors using water and commercial cleaners and disinfectants with the following characteristics:

The yarns shall be any commercial mophead yarn material that meets the requirements of table I. The yarns shall be white or natural. Yarn properties may be certified to, based on test reports from the manufacturer.

The headbands shall be a woven tape with the edges woven or selvaged. The tape for the headband shall be a minimum of 1-1/4 inches wide, weighing 0.30 ounces per linear yard minimum. The tailband shall be a minimum of 1/2 inches wide.

The thread for all mopheads shall be cotton, nylon, or polyester. The cotton thread shall have a breaking strength of 2.1 pounds minimum when tested in accordance with ASTM D 204. The nylon or polyester thread shall have a breaking strength of 17 minimum when tested in accordance with ASTM D 204.

The yarns of the mopheads shall be looped end to end so that no cut yarns are free or visible. The mophead shall have a headband at the center of the yarns and a tailband near each of the ends.

The mopheads shall have a one-piece headband completely encircling the middle of the evenly distributed yarns with an overlap of 2 inches minimum. The centerline of the headband shall be within plus or minus 3/4 inch of the average midpoint (end to end) of the yarns. The finished mophead shall be 6 1/2 inches wide at the headband prior to laundering. The headband shall be secured with a minimum of 4 rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester.

The mopheads shall have a tailband at each end of the mophead, superimposed on one side of the mop yarns and wrapped around for a distance of 1 inch minimum and secured with bartacks. Alternatively the

tape may be completely wrapped around the yarns and the ends bartacked together. The tailband shall be securely stitched to the yarns with not less than two rows of stitching with no crossover or runoff. The thread shall be cotton, nylon, or polyester. The tailband shall maintain the yarns in a side-by-side relationship in a flat layer. Tailbands shall be located at a distance of 1-1/2 to 3 inches from each end of the mophead yarns, as measured from the edge of the tailband closest to the end of the yarns.

Mopheads shall conform to the requirements of Table I. Weight, length and width shall be measured prior to laundering.

Table I. Physical requirements.

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Finished Mopheads:		
Weight, oz, each		24 minimum
Length (loop end to loop end)		38 ± 3
Width at tailband, inches		18 minimum
Dimensional stability		15% maximum shrinkage
Total absorption		300% minimum
Water release		30% minimum
Yarns:		
Yards/pound		125 min. (ASTM D 204)
Breaking strength		45 lbs min.(ASTM D 204)

---

For the purpose of the dimensional stability test, and the absorption/release test below, a lot shall be defined as all mopheads manufactured from the same manufacturing lot of yarn. A signed test report, or Certificate of Conformance, which includes the actual test results from the yarn manufacturer for each lot of yarn, may be used in lieu of the performance of these tests.

From each manufacturing lot of yarn, five (5) mopheads shall be individually weighed and the overall lengths measured. The mopheads shall be washed and dried 5 times using the cotton settings on a domestic washer and a domestic dryer, with the wash water and exhaust temperature at 140°F. After completion of the fifth drying cycle, determine the weight and length and calculate the weight loss and shrinkage as a percentage of their starting values. The average weight loss and shrinkage shall not exceed 15% of the original values.

From each manufacturing lot of yarn, five (5) mopheads shall be tested for absorption. Mopheads used in this test shall be laundered as specified above prior to testing (use of the mopheads tested for dimensional stability above is acceptable). After weighing, immerse each mophead in tap water at room temperature (70 +/- 2°F) until saturated. The mophead shall be removed from the water and allowed to drip until individual drops begin to form. The mophead shall be weighed and total the absorption calculated as the percentage of wet weight compared to the dry weight after laundering. The mophead shall then be subjected to the water release test below.

Mopheads that have been saturated and weighed in accordance with the above paragraph, shall be placed in a downward pressure mop wringer of size appropriate for the mop being tested, and compressed 3 times, 30 seconds each time. Reweigh the mophead and calculate the water released as a percentage of the weight measured at the end of the absorption test.

The finished mopheads shall be clean, free of trash, neat in construction and appearance. The mopheads shall have no defects which may affect appearance, durability or serviceability.

Unit of issue: EA (each).

**NSN: 7920-01-448-0218**

MOP, TWIST WRING: String yarn twist-wring wet mop, with cotton yarn head and handle. The handle shall be metal, painted white, 54 inches long and 15/16 inch in diameter. The yarn head shall be 9.5 ounces with a center band. The yarn head shall fit the plastic hardware on the handle so that it is firmly held on the handle and can be stretched and twist-wrung without slipping by the plastic slide collar. The mop handle with head shall be Signature Works P/N 7502.

Unit of issue: EA (each)

**NSN 7920-01-448-7052**

TOWEL, PAPER (PLASTIC WIPING): Shall be a paper towel intended for use in cleaning, wiping, and polishing soft plastic surfaces with the following characteristics:

The towels shall be 100% paper with 40 to 100% recovered fiber, including a minimum of 40% postconsumer fiber as specified by the EPA Guidelines For Federal Procurement of Paper and Paper Products Containing Recovered Materials (40 CFR 247) and the EPA Paper Products Materials Advisory Notice (Federal Register, Vol. 61, No. 104, May 29, 1996).

Packaging: An average of ninety (90) folded towels shall be furnished in a close-fitting "pop-up" design dispenser type paperboard box, no box shall contain less than 88 towels. The box shall contain a perforated, punch-out section in the top of the box. The design of the box and arrangement of the towels within shall provide a system which will partially dispense the next towel automatically through this opening when each towel is removed. The dispenser design shall provide for easy removal of the towels, one at a time, without tearing of the towel or the dispenser. Three (3) "pop-up" dispensers(270 towels total) shall be placed in a box.

Material: The towels shall be soft, highly absorbent and non-abrasive.

Physical properties: The towels shall have the physical properties specified by Table I.

Table I. Physical Properties.

Property:	Value:	Test Method:(1)
Grammage	43 g/m <sup>2</sup>	TAPPI T 410
Tensile strength:		
Dry:		
Machine direction	2.74 N/cm minimum	TAPPI T 404 or 494
Cross direction	1.32 N/cm minimum	TAPPI T 404 or 494
Wet:		
Machine direction	0.55 N/cm minimum	TAPPI T 456 & 2.2.1.3
Cross direction	0.33 N/cm minimum	TAPPI T 456 & 2.2.1.3
Ash content	2.5 percent maximum	TAPPI T 413
Absorption rate:		
0.1 ml water	15 seconds maximum	TAPPI T 432
0.1 ml oil	45 seconds maximum	TAPPI T 432(2)
Total absorption:		
Water	450 percent minimum	Para. 2.2.1.1
Oil	175 percent minimum	Para. 2.2.1.2

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1 In event of dispute, test samples shall be conditioned in accordance with TAPPI T 402.  
2 Use 0.1 ml of white mineral oil, viscosity 80-90 SU (Saybolt Universal) in lieu of water.

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Total Absorption: The towels shall have the absorbency capacity required by Table I. The test for this shall be as follows:

Water: Cut specimens (10 cm x 10 cm is recommended) and weigh to nearest 0.1 g. Entirely immerse each sample in distilled water at 25°C for 3 minutes without movement. Remove by lifting at one corner until entire specimen is clear of water and allow excess water to drain off for 60 seconds. Place each in a tared weighing bottle and reweigh. Calculate the percent absorption to the nearest 1 percent as follows:

Percent absorption = [(Wet weight - dry weight)/ dry weight] x 100

Oil: Test the same as 2.2.1.1, except using white mineral oil, viscosity 80-90 SU (Saybolt Universal) in lieu of water. The drain time shall be 20 minutes.

Accelerated aging test: Before testing for wet tensile strength in accordance with TAPPI T456, the samples shall be placed in a 105° oven for 10 minutes.

Size: Unless otherwise specified, the area of each towel shall be not less than 1610 cm<sup>2</sup> with the sides not less than 37.5 cm long.

Construction: The towels shall be not less than 3 plies, the plies joined by mechanical means. The joining shall be sufficient to show resistance to separation.

Workmanship: The towels shall be soft, pliable, smooth, and clean. The towels shall not contain holes, tears, cuts, wrinkles, dirt, or foreign material which will adversely affect the appearance or serviceability of the towels. The towels shall be usable for cleaning plexiglass, acrylic sheets, and aircraft canopies using non-abrasive liquid cleaning solutions or water without scratching the surface being cleaned.

Unit of issue – BX (two hundred seventy (270) towels per box).

**NSN: 7920-01-448-7053**

TOWEL, PAPER (INDUSTRIAL WIPING): Shall be Horizon Industries P/N 1250, with the following characteristics:

Size: 155 sq inches minimum, with no side smaller than 9.5 inches.

The towels shall be 100% paper with 40 to 100% recovered fiber, including a minimum of 40% postconsumer fiber as specified by the EPA Guidelines For Federal Procurement of Paper and Paper Products Containing Recovered Materials (40 CFR 247) and the EPA Paper Products Materials Advisory Notice (Federal Register, Vol. 61, No. 104, May 29, 1996).

Unit of issue – BX (one hundred fifty (150) towels per box).

**NSN: 7920-01-454-1147**

CLOTH, CLEANING: Shall have the following characteristics:

Shall be all purpose white cotton, (t-shirt knit), wiping rags in various sizes. The rags shall be Winston-Salem Industries for the Blind, Inc., part number NIB1998ALRAGS5LB015, or equal. The rags shall be packaged in a dispensing box containing 5 pounds.

Unit of issue: BX (box).

**NSN: 7920-01-454-1148**

TOWEL, MACHINERY WIPING: Winston-Salem Industries for the Blind Inc., P/N NIB1998REDTWL1515016 or equal, with the following characteristics:

Shall be 100 percent cotton, red machinery wiping towels. The size of each towel shall be 15 square inches, nominal.

**Unit of issue** – BX (twenty-four (24) bundles of twelve (12) towels packed in a box for a total of two-hundred & eighty-eight (288) towels).

**NSN: 7920-01-454-1150**

TOWEL, MACHINERY WIPING: National Industries for the Blind, Inc., P/N NIB1998TERTWL1619017 or equal, with the following characteristics:

Shall be highly absorbent, multi-purpose, 100 percent cotton, terry machinery wiping towels. The size of each towel shall be 16 inch by 19 inch, nominal.

Unit of issue – BX (twenty-four (24) bundles of twelve (12) towels packed in a box for a total of two-hundred & eighty-eight (288) towels).

**NSN: 7920-01-454-5879**

TOWEL, MACHINERY WIPING, REINFORCED (DECOMPOSABLE): The towels shall have a minimum 40 cm (approx. 16 inches) side length with an overall minimum area of 1930 cm<sup>2</sup> (approx. 300 sq.in), heavy duty, non-woven industrial strength paper towels with the following characteristics:

Towels described by this description are intended for general cleaning, polishing and wiping, on dry, wet, and oily surfaces.

The towels shall meet the requirements of Table I and shall be of 2 ply (minimum) DRC construction with mesh reinforcement. The mesh shall be constructed in such a manner that it is not woven and is not bonded to itself prior to lamination so that when the laminated paper is removed it shall not form a cohesive net. The entire assembly shall decompose when tested as specified below.

Specimens approximately 21.5 by 28 cm shall be cut from the samples to be tested. In separate 9 inch x 11 inch, 1-1/2" deep disposable aluminum pans, each sample shall be buried in commercial potting soil with 1% by weight organic plant fertilizer (3-5-1) and 1% by weight bacteria (Hy-yield stump removal compound), the mixture shall be thoroughly mixed together just prior to burying the sample. The mixture shall be enough to form a 1-1/4 inch deep layer of mixture in each pan. The specimens shall be irregularly buried so that some edges show above the mixture and some areas are covered by as much as 1 inch of mixture. No water is to be added to the mixture. Upon burying the specimens, each pan shall be sealed in polyethylene bags and stored in the dark at room temperature (20°C to 23°C) for ten days. After this time has passed, the bags shall be opened and the specimens examined. The specimens shall have no evidence of perceptible strength of either the paper or the mesh that has been buried. Any perceptible or measurable strength of the any of the buried paper or mesh specimens shall be cause for rejection of the lot. This test shall be performed to establish that the towel's construction and materials are decomposable and need not be performed on each production lot. The test shall be performed prior to the first delivery to the government and thereafter if any change is made to the construction or materials of the towels.

Table I. Physical Characteristics.

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Characteristic:

TAPPI  
Test Method:

Grammage (g/m <sup>2</sup> , minimum)	105.0	T410
Tensile strength:		
Dry (N/m, minimum)	500	T494
Wet (N/m, minimum)	383	T456 <sup>1</sup>
Absorption rate (sec., max.):		
Water	3	T432
Total Absorption, % of dry wt.(min):		
Water	500	SEE BELOW
Oil	200	SEE BELOW

<sup>1</sup> Samples shall be conditioned in an oven at 105°F for 4 minutes prior to testing.

Water absorption: Cut specimens (10 cm x 10 cm is recommended) and weight to nearest 0.1 g. Entirely immerse each sample in distilled water at 25°C for 3 minutes without movement. Remove by lifting at one corner until entire specimen is clear of water, allow excess water to drain off for 60 seconds. Place each in a tared weighing bottle and reweigh. Calculate the percent absorption to the nearest 1 percent as follows:

$$\text{Percent absorption} = [(\text{Wet weight} - \text{dry weight}) / \text{dry weight}] \times 100$$

Oil absorption: Same as water absorption using white mineral oil, viscosity 80-90 SU (Saybolt Universal), in lieu of water. Drain time is 20 minutes.

The towels shall be free from holes, tears, dirt, spots, ragged or uneven edges, or any other defects that affect serviceability.

TAPPI documents are available from TAPPI, 15 Technology Parkway South, Norcross, GA 30092, (404) 446-1400.

Unit of issue – BX (One hundred fifty (150) towels per box).

**NSN 7920-01-458-8208**

BROOM, UPRIGHT (TILT ANGLE): Shall be in accordance with Industries for the Blind, Inc., Milwaukee, WI P/N 7920-00-NIB-0059 or Alwin Products Part Numbers 318 or 319, with the following characteristics:

Overall length: 52 inches.

Block: 6-7/16 inches wide by 2 inches high by 1-1/16 inches deep; lacquered hard wood or plastic.

Bristles: 0.035 inch diameter yellow plastic filament; staple set into the block.

Bristle Trim: Angle cut across the width from 5-1/4 inches on one edge to 6-1/2 inches long on the other edge; bristles flagged (feathered) on the free end.

Handle: 15/16 inch diameter by 46 inches long painted tubular steel. The handle shall screw into the broom head.

Handle cap: Plastic hanger cap.

Unit of issue – EA (each).

**NSN: 7920-01-460-6658**

BROOM, UPRIGHT, HEAVY-DUTY (POLYPROPYLENE FIBER): Shall be in accordance with New York City Industries for the Blind, Inc.'s Toro Broom, Part Number NIB1998TBROOM, with the following characteristics:

LENGTH: 56 inches, overall.

HEAD: 13-1/2 inches high by 10 inches wide; black polypropylene fiber; black plastic cover.

Handle: Black vinyl coated metal.

Weight: 26 lb per dozen

Unit of issue – EA (each).

**NSN: 7920-01-482-6042**

CLOTH CLEANING: Shall be LC Industries for the Blind Inc., P/N 792000NIB0395 or equal, with the following characteristics:

Platinum, 32 cm X 36 cm (approximately 12 inches X 14 inches) Scotch-Brite high performance electronics cloth. Provides excellent dust, oil, and water pickup. Lint-free and streak-free. Non-scratching for use on computer monitors, television screens, VCRs, camera lens, microscopes, etc.

Unit of issue – BX (Twenty-four (24) cloths per box).

**NSN: 7920-01-482-6043**

CLOTH CLEANING: Shall be LC Industries for the Blind Inc., P/N 792000NIB0398, with the following characteristics:

Blue, 30 cm X 32 cm (approximately 12 inches X 12.5 inches) Scotch-Brite high performance industrial pack. Provides excellent dust, oil and water pickup. Lint-free and streak-free. Non-scratching for use on computer monitors, television screens, VCRs, camera lens, microscopes, etc.

Unit of issue – PG (Five (5) cloths per package).

**NSN: 7920-01-490-7273**

MOP, DUSTING: Shall be Proctor and Gamble Swiffer Sweeper Mop, P/N 09060 or equal, in accordance with the following characteristics:



(Image is representational and intended as a guide only)

The regular sweeper implement shall have an approximately 50 inch long handle and a ten (10) inch by four and a half (4.5) inch head compatible with the Swiffer refill cloths, P/N 33407. The implement shall have a pivoted head for mobility in multiple directions and brakes down into four parts for storage and to adjust length.

Unit of Issue – EA (Each)

**NSN: 7920-01-490-7274**

CLOTH, CLEANING: Proctor and Gamble, Swiffer Sweeper System, Unscented Dry Refill Sheets, P/N: 33407 or equal, with the following requirements and characteristics:

The cloths shall be a non-woven material treated with non-toxic compounds to enhance dust attraction. The product shall contain no hazardous materials as defined by OSHA, 29CFR 1910.1200. The cloths shall be compatible with the Proctor and Gamble, Swiffer Sweeper 10 inch wide sweeper, P/N: 37106.

Unit of issue – BX - (Thirty-two (32) refills per box).

**NSN: 7920-01-503-1671**

BROOM, PUSH: Shall be NIB MILWAUKEE, P/N 7920-00-NIB-0322, with the following characteristics:

Ergonomic aluminum handle, 24 inch medium sweeping push broom with medium stiff safety orange filaments.



Unit of issue: EA (1 each).

**NSN: 7920-01-503-1672**

BROOM, PUSH: Shall be NIB MILWAUKEE, P/N 7920-00-NIB-0321, with the following characteristics:

Ergonomic aluminum handle, 24 inch heavy sweeping push broom with stiff plastic safety orange filaments.



Unit of issue: EA (each).

**NSN: 7920-01-512-2412**

CLOTH, CLEANING: NIB, P/N: 7920-00-NIB-0142 or equal with the following requirements and characteristics:

Durable, reusable, absorbent non-woven wipers that stays strong for better cleaning and long lasting performance. The wipers will clean oil, grime, and solvents and are ideal for all manufacturing, maintenance & repair. Made with Kimberly-Clark high-tech HYDROKNIT® WYPALL® X70 Fast Absorbing Material. Each wiper shall have the nominal dimensions of 11 x 16-1/2 inches and shall be white. The wipers shall be packaged a minimum of 174 per Brag® Box for dispensing.

Unit of Issue – BX – (One-hundred and seventy four (174) minimum wipers per box).

**NSN: 7920-01-512-4967**

HANDLE, ACME THREADED END: Shall be NIB, P/N 7920-00-NIB-0303 or equal, with the following characteristics:

The 60 inch handle shall be wood with the following characteristics:

- Close-grained, dried, seasoned straight wood prepared prior to fabrication.
- 15/16 inches diameter.
- Uniform throughout length.
- Free of crook, warp, or bow that would cause an eccentricity of more than 3/8 inch when rolled on a flat surface.
- Handle end (opposite the attachment end), shall be rounded.

Attachment end shall have a 3/4 inch diameter metal ferrule with the following characteristics:

- 5 threads per inch ACME formed threads, permanently attached.
- Aluminum or corrosion resistant steel composition. See Figure 1.

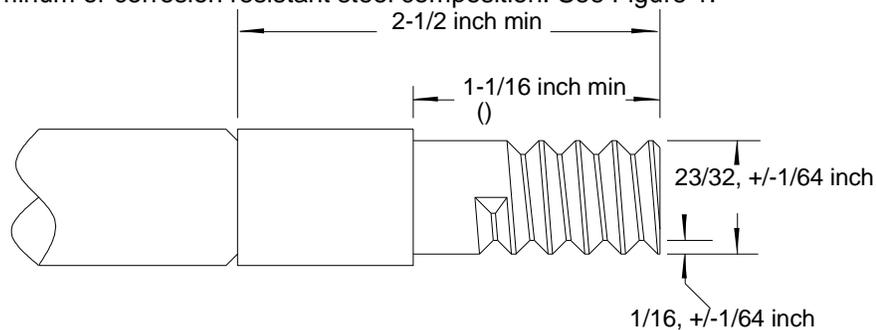


Figure 1.

The handles, except for metal components, shall be sanded smooth and coated with a durable, protective, clear, and water resistant finish. The coating shall be continuous, smooth, uniform, and provide a glossy finish. The handle designed to be used with squeegees, push brooms, paint rollers, etc., with a total length of 60 inch long, wood handle with metal ferrule.

Unit of issue: BX of 3 EA.

**NSN: 7920-01-512-4969**

MOPHEAD, WET: Shall be NIB, P/N 7920-00-NIB-0145 or equal, with the following characteristics:

Medium duty, 4-ply Snowite mop head with cut-ends; designed to spread waxes and other floor finishes; made of a blend of 60% rayon and 40% polyester/acrylic yarn with a 5-1/2 inch nylon mess headband. White.

Unit of Issue: BX of 12 EA

**NSN: 7920-01-512-4970**

MOPHEAD, WET: Shall be NIB, P/N 7920-00-NIB-0144 or equal, with the following characteristics:

Heavy duty, 4-ply Snowite mop head with cut-ends; designed to spread waxes and other floor finishes; made of a blend of 60% rayon and 40% polyester/acrylic yarn with a 5-1/2 inch nylon mess headband. White.

Unit of issue: BX of 12 EA.

**NSN: 7920-01-513-3290**

MOPHEAD, WET: Shall be NIB, P/N 7920-00-NIB-0407 or equal, with the following characteristics:

Medium, 4-ply, synthetic blue and white yarn, looped end finishing mop; for use on all floors and with any type mop handle.

Unit of issue: BX of 12 EA.

**NSN: 7920-01-513-3300**

MOPHEAD, WET: Shall be NIB, P/N 7920-00-NIB-0408 or equal, with the following characteristics:

Large, 4-ply, synthetic blue and white yarn, looped end finishing mop; for use on all floors and with any type mop handle.

Unit of Issue: BX (12 each in box).

**NSN: 7920-01-513-3309**

HANDLE, MOP: Shall be NIB, P/N 7920-01-513-3309, item # 30225 or equal, with the following characteristics:

Quick drop wood mop handle; easy to load; heavy-duty molded plastic head; lever for releasing mop-head; 57 inches length.

Unit of issue: BX (12 each in box).

**NSN: 7920-01-519-4736**

PAD, CLEANING, AIRCRAFT: 3M Company, P/N 61-5001-8697-0 or equal, in accordance with the following characteristics:

Cleaning pad for exterior aircraft washing.

Coated side enhances the friction to loosen dirt and debris, but does not scratch coating or alter the gloss level.

Cleans dirt and residue from either high or low gloss coatings.

Tested with aircraft cleaning agents compliant with MIL-PRF-86937D and MIL-PRF-885570C.

Works in conjunction with pressure wash systems.

6 x 12 inch, for use with pad holder 7920-01-519-4735.

Unit of Issue – BX (Box containing fifty (50) pads).

**NSN: 7920-01-526-9003**

CLEANING PAD: Aerosafe Products Inc., P/N: AMMS 6121; or Seznep, Inc., P/N: CDR61262 or equal, with the following requirements and characteristics:

The pad shall be made of non-woven, Melamine micro-fiber open cell foam sponge and shall be 6 inch X 12 inch (+/- 1/8 inch). The pad overall thickness shall be 1-1/4 inch, +/- 3/8 inch with a minimum of 3/4 inch of the overall thickness being Melamine. The remainder of the pad thickness shall be a backing material to facilitate attaching pad to a standard wash pad holder of approximate overall size. The pad shall not contain any abrasives and/or hard particles. When tested for Breaking Force and Elongation per ASTM D1117, the pads shall meet the requirements specified in Table I.

Performance Characteristics: When subjected to the cleaning pad scrub tests specified below, the pads shall conform to criteria stated below.

Test Panel Preparation: Stamp out 6 each test panels measuring 16 x 5 inches (40.6 x 12.7 cm) from 0.02 inch (0.05 cm) thick bare 2024-T3 aluminum alloy sheet con-forming to SAE AMS-QQ-A-250/4, and break all the sharp edges. Coat the test panels as specified in Table II below per the coating manufacturer's instructions for application.

Performance Testing: Performance testing determines the physical effect of the cleaning pads on the two standard aircraft finish systems identified in Table II and the cleaning efficiency of the cleaning pads in removing embedded soils such as carbon/soot deposits from engine exhaust and/or gun gasses and boot scuff marks from these finish systems.

Table I.  
Physical Characteristics Before and After Chemical Exposure.

Test Solution	Solution Temp. °F ±5° °C±2.8°	Immersion Time, Minutes	Breaking Force (Minimum)		Elongation at Break Percent (%)
			Lbs/in (N/cm)		
			Machine Dir.	Across Web Dir.	Both Dir.
None	77 (25)	N/A	20 (35)	20 (35)	30-70
Water	125 (52)	15	20 (35)	20 (35)	30-70
MIL-PRF-680 (A-A-59601), Type II	77 (25)	15	16 (28)	16 (28)	30-70

MIL-PRF-680 (A-A-59601), Type III	77 (25)	15	16 (28)	16 (28)	30-70
MIL-PRF-87937, Type I <u>1/</u>	77 (25)	15	13 (22)	13 (22)	30-70
MIL-PRF-87937, Type IV <u>1/</u>	77 (25)	15	13 (22)	13 (22)	30-70
MIL-PRF-85570, Type I <u>1/</u>	77 (25)	15	13 (22)	13 (22)	30-70
MIL-PRF-85570, Type II <u>1/</u>	77 (25)	15	13 (22)	13 (22)	30-70

1/ Mixture of 1 part of MIL-PRF-87937, Type I or IV or MIL-PRF-85570, Type I or II and 4 parts of clean tap water.

Table II.  
Test Panel Finish System.

Surface Preparation and Primer:				
Panel Set No.	Specification	Dry Film Thickness (DFT) Mils (mm)	Number of Coats	Cure Time Before Overcoat/ Testing (Hours)
A	MIL-C-5541/MIL-DTL-81706, Class 1A Chemical Conversion Coating	N/A	1	2 to 48
	MIL-PRF-23377, Type I, Class C High Solids Epoxy Primer	0.6 to 0.9 (0.0152 to 0.0229)	1	5 to 24
B	MIL-C-5541/MIL-DTL-81706, Class 1A Chemical Conversion Coating	N/A	1	2 to 48
	MIL-PRF-23377, Type I, Class C High Solids Epoxy Primer	0.6 to 0.9 (0.0152 to 0.0229)	1	5 to 24
Topcoats; FED-STD-595 Color No. 36173 (Flat Gray):				
A	MIL-PRF-85285, Type I, Class H; Coating: Polyurethane, Aircraft and Support Equipment (High Solids)	Per Coat 0.8 to 1.2 (0.0203 to 0.0305) Total 1.6 to 2.4 (0.0406 to 0.0610)	2	<u>Between Coats</u> 2 to 4 <u>Before Testing</u> 168 (7 Days)
	Deft Inc. Cage Code #33461 P/N 99GY001	Per Coat 0.8 to 1.2 (0.0203		<u>Between Coats</u> 2 to 4

B	Polyurethane Coat-ing (APC-Advan-ced Performance Coating / ELT-Ex-tended Life Coat-ing)	to0.0305) <u>Total</u> 1.6 to2.4 (0.0406 to o.0610)	2	<u>Before Testing</u> 168 (7 Days)
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Test for Physical Effect on Finish Systems: Perform these tests to determine if the cleaning pads can be used on standard aircraft finish systems without causing damage to them.

Pretest Measurements: Make the following measurements on each test panel prepared per Table II before performing a scrub test with a cleaning pad.

Specular Gloss: Measure the 60° and 85° Specular Gloss per ASTM D 523 in five separate locations on each of the three Set A and Set B test panels using a Paul N. Gardner “Novo-Gloss” Glossmeter. Average the five 60° and 85° gloss readings for each test panel and record the average readings as the original test panel gloss values.

Dry Film Thickness (DFT): Measure the DFT in five separate locations on each of the three Set A and Set B test panels using an electronic DFT gage suitable for aluminum alloy substrates. Average the five DFT readings for each test panel and record the average readings as the original test panel DFT values.

Average Surface Roughness (Ra): Measure the Ra value in five separate locations in a direction parallel to the length and in five separate locations in a direction perpendicular to the length on each of the three Set A and Set B test panels using an appropriate averaging type profilometer. Average the five parallel and perpendicular Ra readings for each test panel and record the average readings as the original test panel parallel and perpendicular Ra values.

Test Equipment, Test Panel, and Test Cleaning Pad Set-Up: Mount each Set A and Set B test panel separately in the bed of a Paul N. Gardner Model No. D10V Wear Tester with the length parallel to the bed length for individual testing on each test panel. Adjust the applied load on the pad holder to  $3.22 \pm 0.02$  lbs ( $600 \pm 10$  grams). Saturate a  $3\frac{1}{2} \times 5 \pm \frac{1}{8}$  inches ( $8.9 \times 12.7 \pm 0.3$  cm) cleaning pad with clean tap water, and mount it in the pad holder for testing. Use a separate, new test cleaning pad for each individual test panel. Adjust the stroke of the scrub cycle to be  $9 \pm \frac{1}{4}$  inches ( $22.9 \pm 0.6$  cm) total or  $4\frac{1}{2} \pm \frac{1}{8}$  inches ( $11.4 \pm 0.3$  cm) each side of the test panel center point.

Test Performance: Wet down the surface of the test panel with clean tap water, and perform 1000 scrub cycles on each of the three panels in both test panel Set A and Set B in the Model No. D10V Wear Tester. Rewet the test panel surface approximately every 50 scrub cycles. Remove the test panel from the wear tester, rinse it thoroughly with clean tap water while rubbing it lightly with a bare hand, pat it dry with clean paper towels, and allow it to stand for two hours minimum at room temperature. When the test panel has dried thoroughly, measure the 60° and 85° Specular Gloss, the DFT, and the Ra as described above in the scrubbed area of the test panel; and record the averaged results.

Acceptance Criteria: After subjecting a cleaning pad to the scrub test above, the change from the original readings of the Specular Gloss, DFT, and Ra produced on each of the three test panels in Sets A and B shall conform to the requirements in Table III.

Table III

Allowable Changes to Original Test Panel Measurements After Performing a Scrub Test With A Cleaning Pad.

Test	Specular Gloss		
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Panel Set	Increase (GlossUnits)		DFT Decrease (%)	Ra Decrease (%)	
	60°	85°		Par.1/	Per.1/
A	< 1	< 3	< 8	< 7	< 10
B	< 1	< 2	< 5	< 3	< 15

1/ "Par." means parallel to the scrub stroke, and "Per." means perpendicular to the scrub stroke.

Cleaning Efficiency Testing: Perform these tests to determine if the cleaning pads can be used to efficiently remove embedded soils such as carbon/soot deposits from engine exhaust and/or gun gasses and boot scuff marks from standard aircraft finish systems.

Test Panel Preparation: Take one of the Set A panels and one of the Set B panels from the panels tested under "Test for Physical Effect on Finish Systems" above, and outline an area in the middle of each panel with SAE AMS-T-21595, Type III masking tape measuring  $3 \pm \frac{1}{8}$  inches ( $7.62 \pm 0.32$  cm) wide by  $6 \pm \frac{1}{8}$  inches ( $15.24 \pm 0.32$  cm) long. Lightly abrade the surface on each panel bounded by the masking tape with dry 240 grit abrasive paper or cloth. Sprinkle a generous amount of carbon black (P/N Raven 1040 Pwd; Columbian Chemical Co. 1600 Parkwood Circle, Suite 400; Atlanta, GA; (404) 951-5700) on the abraded area of the test panels. Rub the carbon black into the surface with a piece of terry cloth conforming to MIL-C-1164, or equivalent, using moderate hand pressure while making sure the entire area bounded by the masking tape is covered with rubbed in carbon black. Remove loose carbon black particles by lightly tapping the test panels.

Test Performance: Saturate a cleaning pad with clean tap water and flood the soiled area on the test panels with clean tap water. Scrub the soiled area on the test panels with the wet cleaning pad using moderate hand pressure for 60 seconds. The cleaning pad may be rinsed out and rewetted as needed during this process. When the cleaning cycle is complete, rinse the test panel thoroughly with clean tap water while rubbing the surface lightly with the hand. Dry the test panel with paper towels, and visually examine the cleaned area for completeness of soil removal.

Acceptance Criteria: The cleaning efficiency of a cleaning pad is determined by visual examination of the both the Set A and Set B test panels and subjectively estimating the percentage of the soiled areas from which the carbon black was completely removed. The cleaning pads shall meet the following cleaning efficiency criteria on both the Set A and Set B test panels: 90% Minimum.

Workmanship: The finished cleaning pads shall be uniform in size with squared edges and parallel sides. The pads shall have no wrinkles in the material, hard torn edges, thin areas, or heavy areas.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of Issue – BX – (Fifty (50) pads per box.).

**NSN: 7920-01-526-9007**

CLEANING PAD: EVO International Group Inc, P/N: EVO-MC410AF; or Aerosafe Products Inc., P/N: AMMS 5101; or Seznep, Inc., P/N: CDR51965 or equal with the following requirements and characteristics:

The pad shall be made of non-woven, Melamine micro-fiber open cell foam sponge and shall be 4-5/8 inch X 10 inch (+/- 1/8 inch). The pad overall thickness shall be 1-1/4 inch, +/- 3/8 inch with a minimum of 3/4 inch of the overall thickness being Melamine. The remainder of the pad thickness shall be a backing material to facilitate attaching pad to a standard wash pad holder of approximate overall size. The pad shall not contain any abrasives and/or hard particles. When tested for Breaking Force and Elongation per ASTM D1117, the pads shall meet the requirements specified in Table I.

Performance Characteristics: When subjected to the cleaning pad scrub tests specified below, the pads shall conform to criteria stated below.

Test Panel Preparation: Stamp out 6 each test panels measuring 16 x 5 inches (40.6 x 12.7 cm) from 0.02 inch (0.05 cm) thick bare 2024-T3 aluminum alloy sheet con-forming to SAE AMS-QQ-A-250/4, and break all the sharp edges. Coat the test panels as specified in Table II below per the coating manufacturer's instructions for application.

Performance Testing: Performance testing determines the physical effect of the cleaning pads on the two standard aircraft finish systems identified in Table II and the cleaning efficiency of the cleaning pads in removing embedded soils such as carbon/soot deposits from engine exhaust and/or gun gasses and boot scuff marks from these finish systems.

Table I  
Physical Characteristics Before and After Chemical Exposure.

Test Solution	Solution Temp. °F ±5° °C±2.8°	Immersion Time, Minutes	Breaking Force (Minimum)		Elongation at Break Percent (%)
			Lbs/in (N/cm)		
			Machine Dir.	Across Web Dir.	Both Dir.
None	77 (25)	N/A	20 (35)	20 (35)	30-70
Water	125 (52)	15	20 (35)	20 (35)	30-70
MIL-PRF-680 (A-A-59601), Type II	77 (25)	15	16 (28)	16 (28)	30-70
MIL-PRF-680 (A-A-59601), Type III	77 (25)	15	16 (28)	16 (28)	30-70
MIL-PRF-87937, Type I 1/	77 (25)	15	13 (22)	13 (22)	30-70
MIL-PRF-87937, Type IV 1/	77 (25)	15	13 (22)	13 (22)	30-70
MIL-PRF-85570, Type I 1/	77 (25)	15	13 (22)	13 (22)	30-70
MIL-PRF-85570, Type II 1/	77 (25)	15	13 (22)	13 (22)	30-70

1/ Mixture of 1 part of MIL-PRF-87937, Type I or IV or MIL-PRF-85570, Type I or II and 4 parts of clean tap water.

Table II  
Test Panel Finish System

Surface Preparation and Primer:				
Panel Set No.:	Specification:	Dry Film Thickness (DFT) Mills (mm):	Number of Coats:	Cure Time Before Overcoat/ Testing (Hours):
A	MIL-C-5541/MIL-DTL-81706, Class 1A Chemical Conversion Coating	N/A	1	2 to 48
	MIL-PRF-23377, Type I, Class C High Solids Epoxy Primer	0.6 to 0.9 (0.0152 to 0.0229)	1	5 to 24
B	MIL-C-5541/MIL-DTL-81706, Class 1A Chemical Conversion Coating	N/A	1	2 to 48
	MIL-PRF-23377, Type I, Class C High Solids Epoxy Primer	0.6 to 0.9 (0.0152 to 0.0229)	1	5 to 24
Topcoats; FED-STD-595 Color No. 36173 (Flat Gray):				
A	MIL-PRF-85285, Type I, Class H; Coating: Polyurethane, Aircraft and Support Equipment (High Solids)	<u>Per Coat</u> 0.8 to 1.2 (0.0203 to 0.0305) <u>Total</u> 1.6 to 2.4 (0.0406 to 0.0610)	2	<u>Between Coats</u> 2 to 4  <u>Before Testing</u> 168 (7 Days)
B	Deft Inc. Cage Code #33461 P/N 99GY001 Polyurethane Coating (APC-Advanced Performance Coating / ELT-Extended Life Coating)	<u>Per Coat</u> 0.8 to 1.2 (0.0203 to 0.0305) <u>Total</u> 1.6 to 2.4 (0.0406 to 0.0610)	2	<u>Between Coats</u> 2 to 4  <u>Before Testing</u> 168 (7 Days)

Test for Physical Effect on Finish Systems: Perform these tests to determine if the cleaning pads can be used on standard aircraft finish systems without causing damage to them.

Pretest Measurements: Make the following measurements on each test panel prepared per Table II before performing a scrub test with a cleaning pad.

Specular Gloss: Measure the 60° and 85° Specular Gloss per ASTM D 523 in five separate locations on each of the three Set A and Set B test panels using a Paul N. Gardner "Novo-Gloss" Glossmeter.

Average the five 60° and 85° gloss readings for each test panel and record the average readings as the original test panel gloss values.

Dry Film Thickness (DFT): Measure the DFT in five separate locations on each of the three Set A and Set B test panels using an electronic DFT gage suitable for aluminum alloy substrates. Average the five DFT readings for each test panel and record the average readings as the original test panel DFT values.

Average Surface Roughness (Ra): Measure the Ra value in five separate locations in a direction parallel to the length and in five separate locations in a direction perpendicular to the length on each of the three Set A and Set B test panels using an appropriate averaging type profilometer. Average the five parallel and perpendicular Ra readings for each test panel and record the average readings as the original test panel parallel and perpendicular Ra values.

Test Equipment, Test Panel, and Test Cleaning Pad Set-Up: Mount each Set A and Set B test panel separately in the bed of a Paul N. Gardner Model No. D10V Wear Tester with the length parallel to the bed length for individual testing on each test panel. Adjust the applied load on the pad holder to  $3.22 \pm 0.02$  lbs ( $600 \pm 10$  grams). Saturate a  $3\frac{1}{2} \times 5 \pm \frac{1}{8}$  inches ( $8.9 \times 12.7 \pm 0.3$  cm) cleaning pad with clean tap water, and mount it in the pad holder for testing. Use a separate, new test cleaning pad for each individual test panel. Adjust the stroke of the scrub cycle to be  $9 \pm \frac{1}{4}$  inches ( $22.9 \pm 0.6$  cm) total or  $4\frac{1}{2} \pm \frac{1}{8}$  inches ( $11.4 \pm 0.3$  cm) each side of the test panel center point.

Test Performance: Wet down the surface of the test panel with clean tap water, and perform 1000 scrub cycles on each of the three panels in both test panel Set A and Set B in the Model No. D10V Wear Tester. Rewet the test panel surface approximately every 50 scrub cycles. Remove the test panel from the wear tester, rinse it thoroughly with clean tap water while rubbing it lightly with a bare hand, pat it dry with clean paper towels, and allow it to stand for two hours minimum at room temperature. When the test panel has dried thoroughly, measure the 60° and 85° Specular Gloss, the DFT, and the Ra as described above in the scrubbed area of the test panel; and record the averaged results.

Acceptance Criteria: After subjecting a cleaning pad to the scrub test above, the change from the original readings of the Specular Gloss, DFT, and Ra produced on each of the three test panels in Sets A and B shall conform to the requirements in Table III.

Table III.

Allowable Changes to Original Test Panel Measurements After Performing a Scrub Test With A Cleaning Pad

Test Panel Set	Specular Gloss Increase (GlossUnits)		DFT Decrease (%)	Ra Decrease (%)	
	60°	85°		Par. <sup>1/</sup>	Per. <sup>1/</sup>
A	< 1	< 3	< 8	< 7	< 10
B	< 1	< 2	< 5	< 3	< 15

<sup>1/</sup> "Par." means parallel to the scrub stroke, and "Per." means perpendicular to the scrub stroke.

Cleaning Efficiency Testing: Perform these tests to determine if the cleaning pads can be used to efficiently remove embedded soils such as carbon/soot deposits from engine exhaust and/or gun gasses and boot scuff marks from standard aircraft finish systems.

Test Panel Preparation: Take one of the Set A panels and one of the Set B panels from the panels tested under "Test for Physical Effect on Finish Systems" above, and outline an area in the middle of each panel

with SAE AMS-T-21595, Type III masking tape measuring  $3 \pm \frac{1}{8}$  inches ( $7.62 \pm 0.32$  cm) wide by  $6 \pm \frac{1}{8}$  inches ( $15.24 \pm 0.32$  cm) long. Lightly abrade the surface on each panel bounded by the masking tape with dry 240 grit abrasive paper or cloth. Sprinkle a generous amount of carbon black (P/N Raven 1040 Pwd; Columbian Chemical Co. 1600 Parkwood Circle, Suite 400; Atlanta, GA; (404) 951-5700) on the abraded area of the test panels. Rub the carbon black into the surface with a piece of terry cloth conforming to MIL-C-1164, or equivalent, using moderate hand pressure while making sure the entire area bounded by the masking tape is covered with rubbed in carbon black. Remove loose carbon black particles by lightly tapping the test panels.

**Test Performance:** Saturate a cleaning pad with clean tap water and flood the soiled area on the test panels with clean tap water. Scrub the soiled area on the test panels with the wet cleaning pad using moderate hand pressure for 60 seconds. The cleaning pad may be rinsed out and rewetted as needed during this process. When the cleaning cycle is complete, rinse the test panel thoroughly with clean tap water while rubbing the surface lightly with the hand. Dry the test panel with paper towels, and visually examine the cleaned area for completeness of soil removal.

**Acceptance Criteria:** The cleaning efficiency of a cleaning pad is determined by visual examination of the both the Set A and Set B test panels and subjectively estimating the percentage of the soiled areas from which the carbon black was completely removed. The cleaning pads shall meet the following cleaning efficiency criteria on both the Set A and Set B test panels: 90% Minimum.

**Workmanship:** The finished cleaning pads shall be uniform in size with squared edges and parallel sides. The pads shall have no wrinkles in the material, hard torn edges, thin areas, or heavy areas.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of issue: BX (One-hundred (100) pads per box.).

**NSN: 7920-01-526-9015**

**CLEANING PAD:** EVO International Group Inc, P/N: EVO-MC355AF; or Aerosafe Products Inc., P/N: AMMS 3551; or Seznep, Inc., P/N: CDR71962 or equal, with the following requirements and characteristics:

The pad shall be made of non-woven, Melamine micro-fiber open cell foam sponge and shall be 3-1/2 inch X 5 inches (+/- 1/8 inch). The pad overall thickness shall be 1-1/4 inch, +/- 3/8 inch with a minimum of 3/4 inch of the overall thickness being Melamine. The remainder of the pad thickness shall be a backing material to facilitate attaching pad to a standard wash pad holder of approximate overall size. The pad shall not contain any abrasives and/or hard particles. When tested for Breaking Force and Elongation per ASTM D1117, the pads shall meet the requirements specified in Table I.

**Performance Characteristics:** When subjected to the cleaning pad scrub tests specified below, the pads shall conform to criteria stated below.

**Test Panel Preparation:** Stamp out 6 each test panels measuring 16 x 5 inches (40.6 x 12.7 cm) from 0.02 inch (0.05 cm) thick bare 2024-T3 aluminum alloy sheet conforming to SAE AMS-QQ-A-250/4, and break all the sharp edges. Coat the test panels as specified in Table II below per the coating manufacturer's instructions for application.

**Performance Testing:** Performance testing determines the physical effect of the cleaning pads on the two standard aircraft finish systems identified in Table II and the cleaning efficiency of the cleaning pads in removing embedded soils such as carbon/soot deposits from engine exhaust and/or gun gasses and boot scuff marks from these finish systems.

Table I.  
Physical Characteristics Before and After Chemical Exposure.

Test Solution	Solution Temp. °F ±5° °C±2.8°	Immersion Time, Minutes	Breaking Force (Minimum)		Elongation at Break Percent (%)
			Lbs/in (N/cm)		
			Machine Dir.	Across Web Dir.	Both Dir.
None	77 (25)	N/A	20 (35)	20 (35)	30-70
Water	125 (52)	15	20 (35)	20 (35)	30-70
MIL-PRF-680 (A-A-59601), Type II	77 (25)	15	16 (28)	16 (28)	30-70
MIL-PRF-680 (A-A-59601), Type III	77 (25)	15	16 (28)	16 (28)	30-70
MIL-PRF-87937, Type I <u>1/</u>	77 (25)	15	13 (22)	13 (22)	30-70
MIL-PRF-87937, Type IV <u>1/</u>	77 (25)	15	13 (22)	13 (22)	30-70
MIL-PRF-85570, Type I <u>1/</u>	77 (25)	15	13 (22)	13 (22)	30-70
MIL-PRF-85570, Type II <u>1/</u>	77 (25)	15	13 (22)	13 (22)	30-70

1/ Mixture of 1 part of MIL-PRF-87937, Type I or IV or MIL-PRF-85570, Type I or II and 4 parts of clean tap water.

Table II.  
Test Panel Finish System

Surface Preparation and Primer:				
Panel Set No.	Specification	Dry Film Thickness (DFT) Mills (mm)	Number of Coats	Cure Time Before Overcoat/ Testing (Hours)
A	MIL-C-5541/MIL-DTL-81706, Class 1A Chemical Conversion Coating	N/A	1	2 to 48
	MIL-PRF-23377, Type I, Class C High Solids Epoxy Primer	0.6 to 0.9 (0.0152 to 0.0229)	1	5 to 24
B	MIL-C-5541/MIL-DTL-81706, Class 1A Chemical Con-	N/A	1	2 to 48

	version Coating MIL-PRF-23377, Type I, Class C High Solids Epoxy Primer	0.6 to 0.9 (0.0152 to 0.0229)	1	5 to 24
Topcoats; FED-STD-595 Color No. 36173 (Flat Gray):				
A	MIL-PRF-85285, Type I, Class H; Coating: Polyurethane, Aircraft and Support Equip-ment (High Solids)	<u>Per Coat</u> 0.8 to 1.2 (0.0203 to 0.0305) <u>Total</u> 1.6 to 2.4 (0.0406 to 0.0610)	2	<u>Between Coats</u> 2 to 4  <u>Before Testing</u> 168 (7 Days)
B	Deft Inc. Cage Code #33461 P/N 99GY001 Polyurethane Coat-ing (APC- Advan-ced Performance Coating / ELT- Ex-tended Life Coat-ing)	<u>Per Coat</u> 0.8 to 1.2 (0.0203 to 0.0305) <u>Total</u> 1.6 to 2.4 (0.0406 to 0.0610)	2	<u>Between Coats</u> 2 to 4  <u>Before Testing</u> 168 (7 Days)

Test for Physical Effect on Finish Systems: Perform these tests to determine if the cleaning pads can be used on standard aircraft finish systems without causing damage to them.

Pretest Measurements: Make the following measurements on each test panel prepared per Table II before performing a scrub test with a cleaning pad.

Specular Gloss: Measure the 60° and 85° Specular Gloss per ASTM D 523 in five separate locations on each of the three Set A and Set B test panels using a Paul N. Gardner “Novo-Gloss” Glossmeter. Average the five 60° and 85° gloss readings for each test panel and record the average readings as the original test panel gloss values.

Dry Film Thickness (DFT): Measure the DFT in five separate locations on each of the three Set A and Set B test panels using an electronic DFT gage suitable for aluminum alloy substrates. Average the five DFT readings for each test panel and record the average readings as the original test panel DFT values.

Average Surface Roughness (Ra): Measure the Ra value in five separate locations in a direction parallel to the length and in five separate locations in a direction perpendicular to the length on each of the three Set A and Set B test panels using an appropriate averaging type profilometer. Average the five parallel and perpendicular Ra readings for each test panel and record the average readings as the original test panel parallel and perpendicular Ra values.

Test Equipment, Test Panel, and Test Cleaning Pad Set-Up: Mount each Set A and Set B test panel separately in the bed of a Paul N. Gardner Model No. D10V Wear Tester with the length parallel to the bed length for individual testing on each test panel. Adjust the applied load on the pad holder to  $3.22 \pm 0.02$  lbs ( $600 \pm 10$  grams). Saturate a  $3\frac{1}{2} \times 5 \pm \frac{1}{8}$  inches ( $8.9 \times 12.7 \pm 0.3$  cm) cleaning pad with clean tap water, and mount it in the pad holder for testing. Use a separate, new test cleaning pad for each

individual test panel. Adjust the stroke of the scrub cycle to be  $9 \pm \frac{1}{4}$  inches ( $22.9 \pm 0.6$  cm) total or  $4\frac{1}{2} \pm \frac{1}{8}$  inches ( $11.4 \pm 0.3$  cm) each side of the test panel center point.

Test Performance: Wet down the surface of the test panel with clean tap water, and perform 1000 scrub cycles on each of the three panels in both test panel Set A and Set B in the Model No. D10V Wear Tester. Rewet the test panel surface approximately every 50 scrub cycles. Remove the test panel from the wear tester, rinse it thoroughly with clean tap water while rubbing it lightly with a bare hand, pat it dry with clean paper towels, and allow it to stand for two hours minimum at room temperature. When the test panel has dried thoroughly, measure the 60° and 85° Specular Gloss, the DFT, and the Ra as described above in the scrubbed area of the test panel; and record the averaged results.

Acceptance Criteria: After subjecting a cleaning pad to the scrub test above, the change from the original readings of the Specular Gloss, DFT, and Ra produced on each of the three test panels in Sets A and B shall conform to the requirements in Table III.

Table III.

Allowable Changes to Original Test Panel Measurements After Performing a Scrub Test With A Cleaning Pad

Test Panel Set	Specular Gloss Increase (GlossUnits)		DFT Decrease (%)	Ra Decrease (%)	
	60°	85°		Par.1/	Per.1/
A	< 1	< 3	< 8	< 7	< 10
B	< 1	< 2	< 5	< 3	< 15

1/ "Par." means parallel to the scrub stroke, and "Per." means perpendicular to the scrub stroke.

Cleaning Efficiency Testing: Perform these tests to determine if the cleaning pads can be used to efficiently remove embedded soils such as carbon/soot deposits from engine exhaust and/or gun gasses and boot scuff marks from standard aircraft finish systems.

Test Panel Preparation: Take one of the Set A panels and one of the Set B panels from the panels tested under "Test for Physical Effect on Finish Systems" above, and outline an area in the middle of each panel with SAE AMS-T-21595, Type III masking tape measuring  $3 \pm \frac{1}{8}$  inches ( $7.62 \pm 0.32$  cm) wide by  $6 \pm \frac{1}{8}$  inches ( $15.24 \pm 0.32$  cm) long. Lightly abrade the surface on each panel bounded by the masking tape with dry 240 grit abrasive paper or cloth. Sprinkle a generous amount of carbon black (P/N Raven 1040 Pwd; Columbian Chemical Co. 1600 Parkwood Circle, Suite 400; Atlanta, GA; (404) 951-5700) on the abraded area of the test panels. Rub the carbon black into the surface with a piece of terry cloth conforming to MIL-C-1164, or equivalent, using moderate hand pressure while making sure the entire area bounded by the masking tape is covered with rubbed in carbon black. Remove loose carbon black particles by lightly tapping the test panels.

Test Performance: Saturate a cleaning pad with clean tap water and flood the soiled area on the test panels with clean tap water. Scrub the soiled area on the test panels with the wet cleaning pad using moderate hand pressure for 60 seconds. The cleaning pad may be rinsed out and rewetted as needed during this process. When the cleaning cycle is complete, rinse the test panel thoroughly with clean tap water while rubbing the surface lightly with the hand. Dry the test panel with paper towels, and visually examine the cleaned area for completeness of soil removal.

Acceptance Criteria: The cleaning efficiency of a cleaning pad is determined by visual examination of the both the Set A and Set B test panels and subjectively estimating the percentage of the soiled areas from which the carbon black was completely removed. The cleaning pads shall meet the following cleaning efficiency criteria on both the Set A and Set B test panels: 90% Minimum.

Workmanship: The finished cleaning pads shall be uniform in size with squared edges and parallel sides. The pads shall have no wrinkles in the material, hard torn edges, thin areas, or heavy areas.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of Issue – BX – (Two-hundred (200) pads per box.).

**NSN: 7920-01-548-7887**

CLEANING PAD: 3M Company, P/N: 87-2500-020590, with the following requirements and characteristics.

The pads shall be in accordance with 3M drawing 78-8133-8797-0, Revision B.

Unit of issue – BX (Fifty (50) each pads per box).

**NSN: 7920-01-566-4130**

SPONGE: Shall be a 3M Scotch-Brite Cellulose Scrubber Sponge, or equal. Item has an absorbent cellulose sponge side and a synthetic nylon scrubber bonded to the other for use in washing and cleaning.

DIMENSIONS:           6.25 Long  
                              3.25 Wide  
                              0.75 Thick

COLOR OF SPONGE MATERIAL: Yellow

COLOR OF SCRUBBER MATERIAL: Green

Unit of Issue: PG (Three (3) sponges per pack).

**NSN: 7920-01-604-3307**

BRUSH, WIRE: Shall be a toothbrush style, curved wood handled brush with stainless steel wire filler. Shall conform to the following:

Handle:

Overall length - 7-3/4 inch (plus or minus 1/4 inch)  
Width - 13/32 inch (plus or minus 1/16 inch)  
Thickness - 3/8 inch (plus or minus 1/32 inch)

Material: The handle shall be similar to the figure below and shall be made from one-piece, cross-grained laminated wood or one piece solid maple or beech hardwood. The filler material shall be staple set and shall uniformly fill the tuft holes. Filler set shall result in a secure set, capable of preventing filler loss during vigorous brush use. Plastic shall not be used in the construction of this brush.

Filler wire:

- Wire diameter – 0.0055 to 0.0065 inch
- Weight per brush - 0.0082 pounds (minimum)
- Length outside of block - 7/16 inch (minus 0, plus 1/16 in.)
- Brush head length - 1-1/4 inch (plus or minus 1/4 inch)

Material: Stainless steel. The steel wire used shall be of such strength and temper that it will retain its shape and not break during use.

Tuft holes: 20 (3 rows wide, 7 holes long on outsides, 6 on inside).



**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

**PREPARATION FOR DELIVERY:** The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of Issue – DZ (Dozen).

**NSN: 7920-01-604-3309**

BRUSH, WIRE, SCRATCH: The brush shall be a curved wood handled brush with brass wire filament. The brush shall have the following dimensions and be similar in appearance to figure 1:

	Dimensions
Overall Length	7.75 ± 0.25 inch
Handle width	0.375 inch, minimum
Handle thickness	0.365 inch, minimum
Brush part length	1.350 inch, minimum
Brush part width	0.25 inch, minimum

Filament clear of block	0.50 inch, minimum
Brass filament wire diameter	0.006 inch minimum

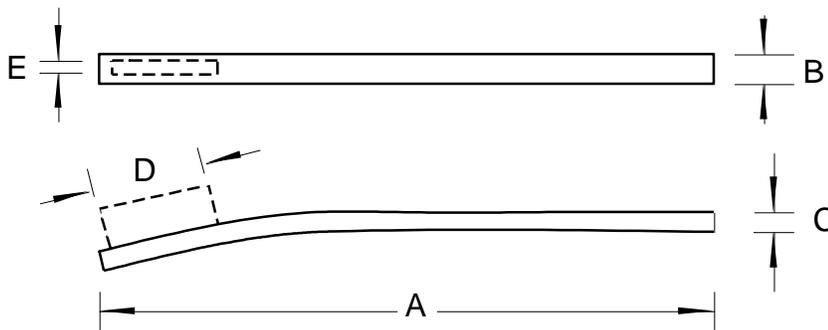


Figure 1.

Unit of issue – DZ (Dozen).

**NSN: 8305-00-205-3495**

CLOTH, CHEESECLOTH (COTTON): Shall be plain weave, bleached, 100 percent cotton cheesecloth suitable for cleaning and polishing and shall be in accordance with the following characteristics:

Item: Graded (for cleaning and polishing)  
 Grade: Commercial Grade No. 50  
 Weight: 30 to 36 gm/sq m  
 Yarn count: 26 warp yarns X 22 fill yarns, minimum, per 25 mm;  
 49 yarns, minimum, per 625 sq mm.  
 Width: 90 centimeters (35.4 inches), minimum  
 Put-up: Bolt, with a maximum of two pieces; the minimum piece length shall be 10 meters, and the minimum bolt length shall be 91 meters (99.5 yards), +4 meters, -0.5 meter.

Fiber Identification: Each bolt of cloth shall be labeled, ticketed, or invoiced for fiber content in accordance with the Rules and Regulations under the Textile Fiber Products Identification Act.

Copies of Rules and Regulations under the Textile Fiber Products Identification Act are available from the Federal Trade Commission, Washington, DC 20580.

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

**PREPARATION FOR DELIVERY:** The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West

Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of Issue: BO (One (1) bolt in a package).

**NSN: 8305-00-205-3496**

CLOTH, CHEESECLOTH (COTTON): Shall be plain weave, bleached, 100 percent cotton cheesecloth suitable for cleaning and polishing and shall be in accordance with the following characteristics:

Item	Graded (for cleaning and polishing)
Grade	Commercial Grade No. 50
Weight	30 to 36 gm/sq m
Yarn count	26 warp yarns X 22 fill yarns, minimum, per 25 mm; 49 yarns, minimum, per 625 sq mm.
Width	90 centimeters (35.4 inches), minimum
Put-up	Package of 9.14 meters (10 yards) ± 1/2 meter, one continuous piece

Fiber Identification: Each package of cloth shall be labeled, ticketed, or invoiced for fiber content in accordance with the Rules and Regulations under the Textile Fiber Products Identification Act.

Copies of Rules and Regulations under the Textile Fiber Products Identification Act are available from the Federal Trade Commission, Washington, DC 20580.

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

**PREPARATION FOR DELIVERY:** The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit Of Issue: One (1) package of cloth.

**NSN: 8305-00-262-3321**

CLOTH, CHEESECLOTH (COTTON): Shall be plain weave, bleached, 100 percent cotton, cheesecloth suitable for cleaning and polishing and shall be in accordance with the following characteristics:

Item	Graded (for cleaning and polishing)
Grade	Commercial Grade No. 90
Weight	45 to 55 gm/sq m
Yarn count	40 warp yarns X 33 fill yarns, minimum, per 25 mm; 76 yarns, minimum, per 625 sq mm.
Width	90 centimeters (35.4 inches), minimum

Put-up Bolt, with a maximum of two pieces; the minimum piece length shall be 10 meters (10.9 yards), and the bolt length shall be 45.7 meters (50 yards) to 50.3 meters (55 yards).

Fiber Identification: Each bolt of cloth shall be labeled, ticketed, or invoiced for fiber content in accordance with the Rules and Regulations under the Textile Fiber Products Identification Act.

Copies of Rules and Regulations under the Textile Fiber Products Identification Act are available from the Federal Trade Commission, Washington, DC 20580.

**NOTICE:** Packaging and packing requirements in this item purchase description are unique at the request of the U.S. Navy Supply Systems Command. This item is included in the Navy's **PLASTICS REMOVAL IN MARINE ENVIRONMENT (PRIME) PROGRAM** under the U.S. Marine Plastic Pollution Research and Control Act of 1987 (MPPRCA) and the International Convention for the Prevention of Pollution from Ships Treaty (MARPOL) Annex V. Items in the **PRIME** program require biodegradable packing materials. The statement "**PLASTIC PACKING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED**" is included in the packaging and packing requirements for all PRIME program items.

PREPARATION FOR DELIVERY: The item(s) shall be packaged and packed in accordance with the latest revision of ASTM D 3951, Standard Practice for Commercial Packaging. **PLASTIC PACKAGING MATERIALS AND PRESSURE SENSITIVE TAPES ARE PROHIBITED.** Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit package shall be one bolt of cloth.

**NSN: 7220-00-224-6486**

MAT, FLOOR: Rubberized link-type floor mat with the following characteristics:

Material: Rubberized fabric, long link  
Length: 50 inches  
Width: 24 inches  
Thickness: 5/8 inch  
Mats without nosing

The floor mats shall contain 75-100% postconsumer content and 85-100% total recovered materials content by weight as specified by the EPA Guidelines for Federal Procurement.

Material: The links shall be made of superimposed layers of rubberized fabric and shall contain not less than three plies of fabric. As an alternate construction, 2 or more ply side wall strips measuring  $0.393 \pm 0.118$  inch in thickness and  $0.748 \pm 0.078$  inch wide, with spacers, cut from truck and passenger tires may be used for the rubberized fabric link. Solid black or alternating side-wall strips of black and white may be used. The links or strips shall be free of objectionable odor and shall contain no material that may stain, damage, or mar the appearance of floors.

Cross wires: The cross wire shall be corrosion resistant or galvanized spring-steel wire. The wire shall be 0.09 inch to 0.13 inch in diameter.

Links: Links may be of any length up to 4 inches as long as the mat remains flexible. The width shall be 0.55 inch. Holes shall be 0.11 inch in diameter. The links shall have line contact with the floor at not less than three approximately equidistant points. The wearing surface of the links shall be corrugated at a right angle to the length of the links.

Color: The mat color shall be naturally produced by the edge surfaces of the rubberized fabric. Either dark or light links may be used in the mat to produce a uniform appearance.

Dimensions: Unless otherwise specified, dimensions listed shall be considered maximum with a minus 3 percent.

Workmanship: The floor mats shall be free from embedded foreign material, cracks, tears, objectionable odor or any other defect affecting appearance or serviceability.

Unit of issue: EA (Each).

**NSN: 7220-00-238-8852**

MAT, FLOOR: Rubberized link-type floor mat with the following characteristics:

Material: Rubberized fabric, long link  
Length: 30 inches  
Width: 18 inches  
Thickness: 5/8 inch  
Mats without nosing

The floor mats shall contain 75-100% postconsumer content and 85-100% total recovered materials content by weight as specified by the EPA Guidelines for Federal Procurement.

Material: The links shall be made of superimposed layers of rubberized fabric and shall contain not less than three plies of fabric. As an alternate construction, 2 or more ply side wall strips measuring  $0.393 \pm 0.118$  inch in thickness and  $0.748 \pm 0.078$  inch wide, with spacers, cut from truck and passenger tires may be used for the rubberized fabric link. Solid black or alternating side-wall strips of black and white may be used. The links or strips shall be free of objectionable odor and shall contain no material that may stain, damage, or mar the appearance of floors.

Cross wires: The cross wire shall be corrosion resistant or galvanized spring-steel wire. The wire shall be 0.09 inch to 0.13 inch in diameter.

Links: Links may be of any length up to 4 inches as long as the mat remains flexible. The width shall be 0.55 inch. Holes shall be 0.11 inch in diameter. The links shall have line contact with the floor at not less than three approximately equidistant points. The wearing surface of the links shall be corrugated at a right angle to the length of the links.

Color: The mat color shall be naturally produced by the edge surfaces of the rubberized fabric. Either dark or light links may be used in the mat to produce a uniform appearance.

Dimensions: Unless otherwise specified, dimensions listed shall be considered maximum with a minus 3 percent.

Workmanship: The floor mats shall be free from embedded foreign material, cracks, tears, objectionable odor or any other defect affecting appearance or serviceability.

Unit of issue: EA (Each).

**NSN: 7220-00-254-4240**

MATTING, FLOOR (FOR FLOOR/STAIR RUNNER SLIP RESISTANT): Shall be in accordance with Purchase Description 7FXEDM5 dated October 24, 1997, with the following characteristics:

Material rubber or vinyl  
Length 25 yards  
Thickness 0.125 inches minimum  
Width 36.0 inches  
Color black  
Pattern ribbed (longitudinal corrugation)

Unit of issue - RO (roll twenty five (25) yards in length).

**NSN: 7220-00-255-0765**

MATTING, FLOOR: Shall be in accordance with MIL-DTL-15562G dated May 31, 1996 with the following characteristics:

Type II: runner type, smooth surface  
Length: 25 yards  
Thickness: 0.125 inches minimum  
Width: 24.0 inches  
Color: black

First Article: A first article inspection is required in accordance with paragraph 3.1 of the specification.

**EXCEPTIONS TO THE SPECIFICATION:**

Paragraph 3.5, Line 2: Delete "plus or minus 3.0 yards." and add: "minus 1/2 yard, any plus tolerance acceptable."

Paragraph 3.5 Add "All rolls shall be tagged showing the exact number of yards in that roll."

Unit of issue - RO (roll twenty five (25) yards in length).

**NSN: 7220-00-457-6046**

MAT, FLOOR: Floor mat with the following characteristics:

Material: - Polyvinylchloride (with cleats)  
Shape: - With single lip  
Lip location/dimension - Lip centered on the width dimension  
- 20.00 inches wide  
- 10.00 inches deep  
Length: - 48.0 inches  
Width: - 36.0 inches  
Thickness: - 0.145 inches  
Colorless: - Transparent

NISH P/N 7220-00-457-6046

Unit of issue – EA (Each).

**NSN: 7220-00-457-6054**

MAT, FLOOR: Floor mat with the following characteristics:

Material: Polyvinylchloride (with cleats)

Shape:  
Lip location/  
Dimension: Lip centered on the width dimension  
20.0 inches wide

With sin

Length: 53.0 inches  
Width: 45.0 inches  
Thickness: 0.145 inches  
Colorless: Transparent

10.00 in

NISH P/N 7220-00-457-6054

Unit of issue – EA (Each).

**NSN: 7220-00-753-2981**

MATTING, FLOOR (FOR FLOOR/STAIR RUNNER SLIP RESISTANT): Shall be in accordance with Purchase Description 7FXEDM5 dated October 24, 1997, with the following characteristics:

Material: rubber or vinyl  
Length: 10 yards  
Thickness: 0.125 inches minimum  
Width: 24.0 inches  
Color: black  
Pattern: ribbed (longitudinal corrugation)

Unit of issue - RO (roll ten (10) yards in length).

**NSN: 7220-00-965-4769**

MATTING, FLOOR (FOR FLOOR/STAIR RUNNER SLIP RESISTANT): Shall be in accordance with Purchase Description 7FXEDM5 dated October 24, 1997 with the following characteristics:

Material: rubber or vinyl  
Length: 25 yards  
Thickness: 0.188 inches minimum  
Width: 24.0 inches  
Color: black  
Pattern: ribbed (longitudinal corrugation)

Unit of issue - RO (roll twenty five (25) yards in length).

**NSN: 7220-01-056-1944**

MATTING, FLOOR: Shall be in accordance with MIL-DTL-15562G dated May 31, 1996 with the following characteristics:

Type III: mat, runner type, raised diamond pattern surface  
Length: 25 yards  
Thickness: 0.188 inches minimum  
Width: 36.0 inches  
Color: green

Exceptions to the Specification:

Paragraph 3.5 Line 2 Delete: "plus or minus 3.0 yards." and add "minus 1/2 yard, any plus tolerance acceptable."

Paragraph 3.5 add: "All rolls shall be tagged showing the exact number of yards in that roll."

Unit of issue - RO (roll twenty five (25) yards in length).

**NSN: 7220-01-305-3062**

MAT, FLOOR: Floor mat with the following characteristics:

Material: Polyvinylchloride (with cleats)

Shape: With single lip

Lip location/dimension:

Lip centered on the width dimension:

20.00 inches wide

10.00 inches deep

Length: 53.0 inches

Width: 45.0 inches

Thickness: 0.220 inches

Colorless: Transparent

NISH P/N 7220-01-305-3062

Unit of issue – EA (each).

**NSN: 7220-01-411-1515**

MAT, FLOOR: Shall be SKILCRAFT/3M Nomad Mats, P/N 26445, **3M™ Nomad™ Scraper Matting 6050**, with the following characteristics:

Size: 3 ft. X 5 ft.  
Color: Slate  
UPC: 500-48011-26445-0

Unit of issue - EA (Each).

**NSN: 7220-01-411-2979**

MAT, FLOOR: Shall be in accordance with SKILCRAFT/3M Nomad Mats P/N 26187, **3M™ Nomad™ Scraper Matting 6050**, with the following characteristics:

Size: 3 ft. X 5 ft.  
Color: Dove  
UPC: 000-48011-26187-4

Unit of issue - EA (Each).

**NSN: 7220-01-411-2980**

MAT, FLOOR: Shall be in accordance with SKILCRAFT/3M Nomad Mats P/N 26189, **3M™ Nomad™ Scraper Matting 6050**, with the following characteristics:

Size: 4 ft. X 6 ft.  
Color: Dove  
UPC: 000-48011-26189-8

Unit of issue - EA (Each).

**NSN: 7220-01-471-0913**

MAT, FLOOR: Shall be in accordance with East Texas Lighthouse for the Blind P/N NIB-0017, or equal, with the following characteristics:

Material: Polyvinylchloride  
Form: With single lip (25.0 inches X 12.0 inches)  
Finish: Pressure embossed one side, smooth on the other side.  
Length: 53.0 inches  
Thickness: 0.110 inches, minimum  
Width: 45.0 inches  
Colorless: Transparent

Unit of issue - EA (Each).

**NSN: 3510-00-222-1457**

PIN, NET, LAUNDRY: Shall be in accordance with Commercial Item Description (CID) A-A-52127 dated June 15, 1993 and 27 September 2001 Validation Notice 1 dated with the following characteristics;  
Length overall - 5 inches (plus or minus 1/8 inch)

Material;

Clasp - copper alloy

Wire - copper alloy

Finish - nickel or chromium

**NOTICE:** The use of any plastic material in the packaging or packing of this item is prohibited.

**EXCEPTION TO THE CID:**

1) Delete paragraph 3.1 and substitute the following:

3.1 Product Conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance."

Unit of Issue - HD (one hundred pins).

**NSN: 3510-00-273-9738**

NET, LAUNDRY: Shall be in accordance with Federal Specification JJ-N-180G dated July 20, 1978 with the following characteristics;

Type I - With grommets

Style A - Leno weave (Nylon) or Style B - Warp knit (Nylon)

Size 2 - 12 x 22 inches (305 x 559 mm)

**EXCEPTIONS TO THE SPECIFICATION:**

- 1) Style B warp knit (Nylon) may be provided in lieu of Leno weave (Nylon).
- 2) Polyester may be used in lieu of nylon. When polyester is used, the bursting strength requirements of Table I shall be amended to require 150 pounds, for nets manufactured from polyester.
- 3) Add the following sentence to Paragraph 3.2.3: "Dimensions are to the center of the hole in the grommet."
- 4) Delete all references to "MIL-STD-105" and substitute; "ANSI/ASQC Z1.4".

Application for copies of ANSI/ASQC standards should be addressed to American Society for Quality Control, PO Box 3005, 611 E. Wisconsin Avenue, Milwaukee, WI 53201-4606.

Unit of issue is 1 DZ (12 each)

**NSN: 3510-00-273-9739**

NET, LAUNDRY: Shall be in accordance with Federal Specification JJ-N-180G dated July 20, 1978 with the following characteristics;

Type I - With grommets

Style A - Leno weave (Nylon) or Style B - Warp knit (Nylon)

Size 4 - 24 x 36 inches (610 x 914 mm)

**EXCEPTIONS TO THE SPECIFICATION:**

- 1) Style B warp knit (Nylon) may be provided in lieu of Leno weave (Nylon).

2) Polyester may be used in lieu of nylon. When polyester is used, the bursting strength requirements of Table I shall be amended to require 150 pounds, for nets manufactured from polyester.

3) Add the following sentence to Paragraph 3.2.3: "Dimensions are to the center of the hole in the grommet."

4) Delete all references to "MIL-STD-105" and substitute; "ANSI/ASQC Z1.4".

Application for copies of ANSI/ASQC standards should be addressed to American Society for Quality Control, PO Box 3005, 611 E. Wisconsin Avenue, Milwaukee, WI 53201-4606.

Unit of issue is 1 DZ (12 each)

**NSN: 7240-00-269-1243**

**BASKET, FRAME MOUNTED:** This is a caster mounted steel frame with removable cloth liner (without handles), similar to illustration(s) herein, furnished completely assembled with the following characteristics:

Frame size – Inside dimensions at the top 42"L x 30"W x 30"D

Bottom dimensions shall measure 2-1/2 inches less in length (L) and width (W) than at the top

Casters - Four (4) casters shall be of the same wheel diameter

Two (2) rigid casters shall be mounted on each side and two (2) swivel casters shall be center mounted on each end

Cloth liner – Cotton duck material in natural color

Capacity - 18 bushel

UNIT OF ISSUE - EA (each)

**NSN: 7290-00-125-9069**

**HANGER, COAT:** Shall be in accordance with the following characteristics:

Construction. The hanger shall be constructed of steel and shall be designed for standard (light duty) use as a coat hanger. The hanger shall be of a one-piece formed design, with a shoulder bar unit, trouser bar, and suspension hook. The hanger shall be manufactured from steel wire having a minimum diameter of 0.092-inch (Standard Wire Gauge 13 gauge). The hanger shall be swaged (wrapped) around the base of the suspension hook with the option of forming an open eyehook. The hook radius shall completely fit over a 1-1/2 inch (3.81 cm) diameter bar without binding. The trouser rod shall be included without a trouser guard.

Finish. Enamel.

Size. The hanger shall have a minimum width of 15-3/4 inches (40.0 cm).

Workmanship. Hangers shall be free from any sharp edges, projections, and other defects that could snag or tear garments. Surfaces shall be free from flaws, cracked or peeling paint, and other defects that could impair appearance or serviceability as specified herein.

Unit of Issue – BX (Box of 500 hangers)

**NSN: 7290-00-148-7068**

FLATIRON, ELECTRIC (STEAM): Shall be in accordance with the following characteristics:

Design - Spray, steam, Dry, 120 volts AC, steam vents, water level window.

Cord - 2 conductor cord with 2 prong plug.

Features - Fabric guide indicator, temperature selector, heel rest.

AUTO SHUTOFF FEATURE REQUIRED

Safety - Shall be in compliance with the latest revision of UL 1005

Shall have a button nook or some other feature such as large gap between the sole plate and main body of the flatiron, to facilitate ironing around a button.

CARE AND USE INSTRUCTION BOOKLET: Each flatiron shall be accompanied by a care and use instruction booklet. The care and use instructions shall be in the same format as and contain the same information as the care and use information furnished with the flatiron for commercial sales.

Unit of Issue – EA (Each)

**NSN: 7290-00-663-7300**

IRONING BOARD, HOUSEHOLD: Household ironing board with pad and Teflon treated or silicone-aluminum coated cotton cover shall be in accordance with the following characteristics:

**Ironing board design and construction**

The ironing board shall provide a stable, smooth, ventilated ironing surface.

The ironing board shall be made of commercial grade; cold rolled steel and shall have a baked enamel finish or an electrostatic powder coated finish, at the manufacturer's option.

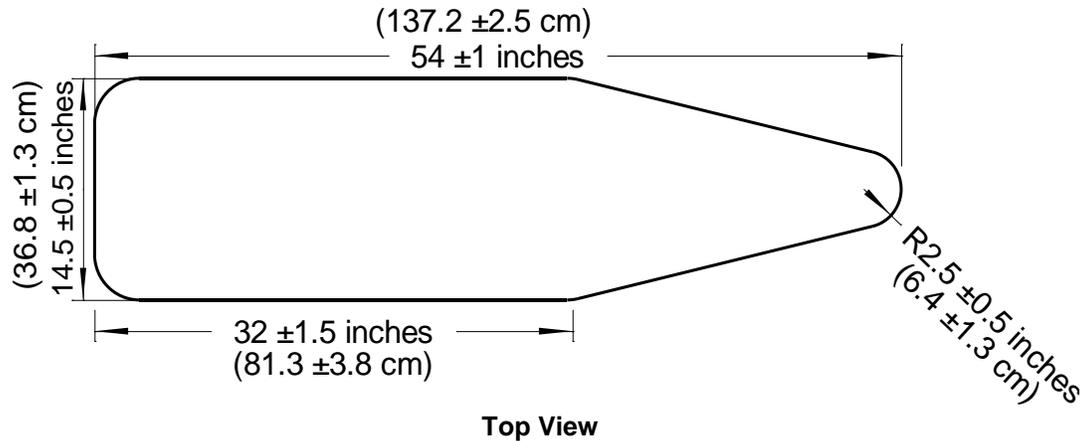
The ironing board shall have a T-leg or four-leg design, at the option of the manufacturer, and shall have a non-mar, non-skid cushioning cap over the end of each leg.

The ironing board shall have a means of opening, closing, and locking to a selected ironing surface height. The ironing board surface height shall be adjustable to any height ranging from  $24 \pm 1$  inch ( $61.0 \pm 2.5$  cm) up to  $36 \pm 1$  inch ( $91.4 \pm 2.5$  cm), measured from the top surface of the ironing board to the floor. A positive retention feature shall maintain the selected ironing surface height and prevent the ironing board from collapsing.

The ironing board shall fold flat for storage.

The ironing surface shall have a perforated or expanded mesh design, at the manufacturer's option.

The ironing surface shall have the shape and dimensions shown in the figure. The corners at the wide end shall be slightly rounded.



### Ironing board performance

The ironing board shall be rigid, stable, free of wobble, and capable of supporting a 50 lb (22.7 kg) weight placed in the center of the board within a bearing area of not more than  $64 \text{ in}^2$  ( $412.9 \text{ cm}^2$ ) for three minutes. The ironing board shall be capable of supporting the specified weight without a permanent deflection in the top surface and shall maintain all height positions.

### Ironing board pad

The ironing board pad shall fit the ironing board depicted in the figure, covering the entire ironing surface of the ironing board.

The pad shall be cut in one piece, although a separate nosepiece, wide enough to securely hold the end of the pad to the end of the ironing board, shall be sewn to the tapered end of the pad.

The pad shall be an assembly of a top and a bottom layer of interlocked synthetic and natural fibers with a natural or synthetic foam rubber core or shall be a combination of interlocked synthetic and natural fibers without a core. The pad shall be  $1/4$  inch (0.6 cm) thick, minimum, and shall weigh  $14 \text{ oz/yd}^2$  ( $466.7 \text{ g/m}^2$ ), minimum.

At the manufacturer's option, the pad may have a natural or synthetic foam rubber backing.

The entire perimeter of the pad shall be finished with binding tape or over-edge stitching. The edge finish shall be sewn through all component layers of the pad.

### Ironing board cover

The ironing board cover shall fit the ironing board depicted in the figure and shall be large enough to be securely fitted over the ironing board top with the pad in place.

The cover shall be unbleached, sized or unsized, 100 percent cotton sheeting or drill.

The cover shall be cut in one piece. A separate nosepiece may be attached at the tapered end of the cover, at the manufacturer's option.

The edges of the cover shall be finished with a hem or binding and shall employ a drawstring or elastic binding to hold the cover on the ironing board. Additional tie tapes may be furnished, at the option of the manufacturer.

### **Drawstring or elastic binding**

A drawstring or elastic binding shall be provided, and shall be of sufficient durability and strength to hold the cover and pad to the ironing board under normal use. Drawstrings shall be encased in an edge hem or binding, shall extend around the entire perimeter of the cover, and shall extend a minimum of 4 inches (10.2 cm) beyond the opening at each end of the hem or binding. Elastic bindings shall be securely sewn around the entire perimeter of the cover.

### **Ironing board cover cloth**

The base cloth shall have a minimum yarn count per inch (per 2.5 cm) of 50 x 50 and minimum weight of 1.4 oz/yd<sup>2</sup> (83.3 g/cm<sup>2</sup>) before Teflon treatment or silicone-aluminum coating. The coating shall be uniformly applied to the face of the cover and shall not crack, transfer, or rub off during normal use. The coated cloth shall show no pinholes when held up to a bright light.

Workmanship. The finished ironing board, pad, and cover shall be clean, well made, and free of any defect affecting appearance, function or serviceability. The finished ironing board shall be free of all burrs and sharp edges. The finished ironing board pad and ironing board cover shall be free of tears, cuts, holes, weak spots, thin spots, skipped stitches, open seams, puckers, or other fabric or construction defects.

Unit of Issue – EA (each)

**NSN: 7290-00-893-7339**

HANDCART, MAIL: Shall be a caster-mounted metal frame with two removable wire baskets in accordance with the following salient characteristics:



Material. Tubing, angle, strip, rod, and wire shall be carbon steel in accordance with American Iron and Steel Institute (AISI) 1010, 1015, 1016, 1018, or 1020 (Unified Numbering System (UNS) G10100, G10150, G10160, G10180, or G10200).

Supporting structure. The frame and handle shall be 7/8 inch, 18 gauge, 1 inch, 16 or 18 gauge, or 1 inch by 1-1/2 inch, 16 gauge.

Dimensions. The mail handcart dimensions, in inches, shall be within the following ranges. The width and length dimensions of the baskets shall be sized to properly fit the overall width and length dimensions of the cart frame.

Overall

Upper Basket

Lower Basket

Height <sup>1/</sup>	36 - 42	10 - 12	5 - 8
Width	17 - 24	17 - 24	17 - 24
Length <sup>2/</sup>	32 - 43	25 - 36	25 - 36

1/ Overall height measured at rear of cart frame.

2/ Overall length measured from front of frame to back of rear wheel.

Frame. The frame shall be rigid and boltless. The handle may be an integral part of the frame, welded to the frame, or bolted to the frame. Alternately the handle may be a snap on design held securely in place with a spring pin insert.

Baskets. The removable baskets shall be rectangular and made from wire mesh. Frame wire shall be 6 gauge (minimum). Mid-frame wire shall be 6 gauge (minimum). Cross wire shall be 11 gauge (minimum). Snap-on adjustable file guide bars shall be furnished with the upper basket.

Casters and wheels. The cart shall have two 4-inch or 5-inch front swiveling rubber casters and two 10-inch non-swiveling semi-pneumatic rear wheels. Casters and wheels shall be bolted to the frame or may be attached by cart frame tubing staked to the caster stems.

Finish. All components of the mail handcart shall be treated with the manufacturer's commercial standard rust and corrosion proofing treatment.

Assembly. The mail handcart shall be shipped either unassembled or fully assembled and ready to use.

Workmanship. The mail handcart shall be free from sharp edges, projections, and defects which might impair serviceability or appearance or endanger the health or safety of users. All component parts shall fit properly with applicable component parts. All component parts shall be physically and functionally interchangeable without the need for modification within the same model number mail handcart.

Unit of Issue – EA (Each)

**NSN: 7290-01-369-7966**

FLATIRON, ELECTRIC (STEAM): Shall be in accordance with the latest revisions of UL Standards 1005, 498, and 817, and shall have the following characteristics:

TYPE - Spray/Steam/Dry.

CORD - 3-conductor cord (2 conductor with grounding conductor) with 3-terminal (male prong) plug.

LOAD RATING - 125 Volts, 15-Amp, 50-60 Hz, 16 AWG.

VOLTAGE - 120 volts AC.

CORD: NEC Flexible, Type HPN, 2 conductor with additional grounding conductor shall be used and conform to the requirements of UL Standard 1005.

PLUG: 3-terminal (male prong), non-locking, non-polarized, integrally molded.

**NOTE:** Removable pin terminal type connection shall not be used.

SALIENT CHARACTERISTICS: The flatiron shall have a smooth, snag-free sole plate, temperature selector, push button spray, heel rest, button nook, and water level window or transparent water tank.

MARKINGS AND LABELS: If the flatiron is modified from the original UL listed manufactured flatiron, all of the original manufacturer's names, labels, logos, care instructions, fabric guides, and inkjet or "molded in" markings and all UL labels and markings shall be completely and permanently removed from each flatiron.

**FABRIC GUIDE LABEL:** Each flatiron shall contain a permanent, waterproof fabric guide label, centered on the upper surface of the flatiron. If the flatiron is modified from the original UL listed manufactured flatiron, the fabric guide label shall be in the same format as and contain the same information as the original manufacturer's label, and the fabric guide label shall contain the name and address of the company modifying the flatiron (the company installing the three prong wire and cord). The name and address shall be located on the bottom portion of the fabric guide label. If the flatiron is modified from the original UL listed manufactured flatiron, the fabric guide label shall contain no reference to the original manufacturer's names, markings, or model numbers, or to UL logos or markings.

**NOTE:** The fabric guide label shall be consistent with information listed in the care and use instruction booklet.

**CARE AND USE INSTRUCTION BOOKLET:** Each flatiron shall be accompanied by a care and use instruction booklet. The care and use instructions shall be in the same format as and contain the same information as the care and use information furnished with the original manufacturer's flatiron. If the flatiron is modified from the original UL listed manufactured flatiron, no manufacturers' names, markings, model numbers, or logos shall appear anywhere in the instruction booklet.

**HAZARDOUS MATERIALS:** The flatiron components shall be completely free of all asbestos material.

**WORKMANSHIP:** The irons shall contain no dents, cracks, scratches, loose screws or parts, and shall have no defects that may affect performance or serviceability. The bottom plate shall be smooth and flat with no burrs, scratches, or edges sharp enough to damage any cloth. The power supply cord and plug shall be free from cracks, cuts, chips, or worn insulation. The supply cord connections at the base of the flatiron and at the plug shall not be loose or damaged. The plug contacts shall not be corroded or damaged. The flatiron shall be manufactured to preclude any possible safety hazard.

Unit of Issue – EA (Each)

**NSN: 7240-00-139-7521**

**WASTE RECEPTACLE:** The plastic waste receptacle(s) with removable cover, shall be in accordance with NSF/ANSI 21, dated 2003, and shall have the following characteristics:

CAPACITY - 44 gallons  
OVERALL HEIGHT - 32.25 inches (nominal)  
OVERALL DIAMETER - 23.75 inches (nominal)  
RECEPTACLE COLOR - Gray  
COVER COLOR - Gray or black

**CONSTRUCTION:**

- (a) Molded one piece and watertight
- (b) Interior and exterior surfaces shall allow for easy cleaning
- (c) Two diametrically positioned handles located near top edge
- (d) Cover shall have a handle for easy removal and a means for locking securely to the receptacle

**EXCEPTION TO NSF 21-2009 STANDARD:**

1) Paragraph 6.2.1.1, delete reference to  $-29^{\circ} \text{C} \pm 0.5^{\circ} \text{C}$  ( $-20^{\circ} \text{F} \pm 1^{\circ} \text{F}$ ) for a minimum of 24 hours conditioning prior to test. The manufacturer has the latitude to test in accordance with normal commercial conditional practices.

**WORKMANSHIP:** Shall be free from seams, flash, blisters, cracks, chips, sharp fins, sharp edges, lumps, imbedded foreign material, and any sign of corrosion if metal handles are used.

Unit of issue - EA (each)

**NSN: 7240-00-151-6629**

WASTE RECEPTACLE: The polyethylene waste receptacle(s) with removable cover, shall be in accordance with NSF/ANSI 21, dated 2003, and shall have the following characteristics and requirements:

MATERIAL- Polyethylene  
CAPACITY - 32 Gallon  $\pm$  1 gallon  
OVERALL HEIGHT - 28 inches nominal  
OVERALL DIAMETER - 22 inches nominal  
COLOR - Gray with gray or black cover/lid  
COVER- Removable cover  
UNDERCARRIAGE- Included as stated below

**CONSTRUCTION REQUIREMENTS:**

- (a) Molded one piece and watertight
- (b) Interior and exterior surfaces shall allow for easy cleaning
- (c) Two diametrically positioned handles located near top edge
- (d) Cover shall have a handle for easy removal
- (e) Cover shall lock securely

**UNDERCARRIAGE REQUIREMENTS:**

- (f) Undercarriage shall have a minimum of four swivel casters located at corners
- (g) Casters - minimum of 3 inches in diameter
- (h) Undercarriage shall fasten securely to base using method which permits removal for cleaning or replacement

**EXCEPTION TO NSF 21-2009 STANDARD:**

1) Paragraph 6.2.1.1, delete reference to  $-29^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$  ( $-20^{\circ}\text{F} \pm 1^{\circ}\text{F}$ ) for a minimum of 24 hours conditioning prior to test. The manufacturer has the latitude to test in accordance with normal commercial conditional practices.

**WORKMANSHIP:** Shall be free from seams, flash, blisters, cracks, chips, sharp fins, sharp edges, lumps, imbedded foreign material, and any sign of corrosion if metal handles are used.

Unit of Issue - EA (each)

**NSN: 7240-00-151-6630**

WASTE RECEPTACLE: The polyethylene waste receptacle(s) with removable cover, shall be in accordance with NSF/ANSI 21, dated 2003, and shall have the following characteristics and requirements:

MATERIAL - Polyethylene  
CAPACITY - 44 Gallon  $\pm$  1 gallon  
OVERALL HEIGHT - 32 inches (nominal)  
OVERALL DIAMETER - 24 inches (nominal)  
COLOR - Gray with gray or black cover/lid  
COVER - Removable cover

UNDERCARRIAGE - Included as stated below

**CONSTRUCTION REQUIREMENTS:**

- (a) Molded one piece and watertight
- (b) Interior and exterior surfaces shall allow for easy cleaning
- (c) Two diametrically positioned handles located near top edge
- (d) Cover shall have a handle for easy removal
- (e) Cover shall lock securely

**UNDERCARRIAGE REQUIREMENTS:**

- (f) Undercarriage shall have a minimum of four swivel casters located at corners
- (g) Casters - minimum of 3 inches in diameter
- (h) Undercarriage shall fasten securely to base using method which permits removal for cleaning or replacement

**EXCEPTION TO NSF 21-2009 STANDARD:**

1) Paragraph 6.2.1.1, delete reference to  $-29^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$  ( $-20^{\circ}\text{F} \pm 1^{\circ}\text{F}$ ) for a minimum of 24 hours conditioning prior to test. The manufacturer has the latitude to test in accordance with normal commercial conditional practices.

**WORKMANSHIP:** Shall be free from seams, flash, blisters, cracks, chips, sharp fins, sharp edges, lumps, imbedded foreign material, and any sign of corrosion if metal handles are used.

Unit of Issue - EA (each)

**NSN: 7240-00-160-0438**

**CAN, TRASH AND GARBAGE:** The steel garbage can shall be designed for extra heavy-duty and is intended for use as a container for rubbish and garbage. NSN 7240-00-161-1150 cover is designed for use with this can. The can shall have the following characteristics;

MATERIAL- Steel  
CAPACITY - 10 gallons  
BAIL - Included  
OUTSIDE DIAMETER -  $14-13/16 \pm 1/8$  inch (top of can)  
CAN BODY THICKNESS - 0.021 inch minimum  
RIM STRIP THICKNESS - 0.021 inch minimum (bottom and top)  
COVER- Not included  
FINISH - Zinc/galvanized

The bottom and top rims of the can shall be reinforced with a steel band strip or be integral with a rolled edge or by any other commercial manufacturing method that will provide rigidity. The body of the can shall be corrugated and tapered to allow nesting.

The can shall be hot-dip galvanized in accordance with ASTM A123 or ASTM A653, or electrodeposited in accordance with ASTM A879.

Copies of ASTM standards may be obtained from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

**PERFORMANCE CRITERIA:** The can shall be designed for use and compatibility to fit, form and function of the associated cover, listed under NSN 7240-00-161-1150.

Unit of issue - BD (6 cans per bundle)

**NSN: 7240-00-160-0440**

CAN, TRASH AND GARBAGE: The can shall be designed for extra heavy-duty and is intended for use as a container for rubbish and garbage. NSN 7240-00-161-1143 cover is designed for use with this can. The can shall have the following characteristics:

MATERIAL- Steel  
DESIGNED USAGE- Extra heavy duty  
CAPACITY- 32 gallons  
HANDLES- Included (2 each)  
OUTSIDE DIAMETER (top of can) -  $20-7/8 \pm 1/8$  inch  
CAN BODY THICKNESS - 0.021 inch minimum  
REINFORCEMENT RIM STRIPS - Included  
COVER- Not included

**REINFORCED RIM STRIPS:**

The bottom and top rims of the can shall be reinforced with a steel band strip or be integral with a rolled edge or by any other commercial manufacturing method that will provide rigidity. The minimum thickness of the reinforcement rim strips shall be 0.021 inch. The body of the can shall be corrugated and tapered to allow nesting.

**PLATING:**

The can shall be hot-dip galvanized in accordance with ASTM A123 or ASTM A653, or electrodeposited in accordance with ASTM A879.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of issue - EA (each)

**NSN: 7240-00-160-0441**

CAN, TRASH AND GARBAGE: The can shall be designed for extra heavy-duty and is intended for use as a container for rubbish and garbage. NSN 7240-00-161-1147 cover is designed for use with this can. The can shall have the following characteristics:

MATERIAL- Steel  
DESIGNED USAGE- Extra heavy duty  
CAPACITY- 24 gallons  
HANDLES - Included (2 each)  
OUTSIDE DIAMETER (top of can) -  $19-1/4 \pm 1/8$  inch  
CAN BODY THICKNESS - 0.021 inch minimum  
REINFORCEMENT RIM STRIPS - Included  
COVER- Not included

**REINFORCED RIM STRIPS:**

The bottom and top rims of the can shall be reinforced with a steel band strip or be integral with a rolled edge or by any other commercial manufacturing method that will provide rigidity. The minimum thickness of the reinforcement rim strips shall be 0.021 inch. The body of the can shall be corrugated and tapered to allow nesting.

**PLATING:**

The can shall be hot-dip galvanized in accordance with ASTM A123 or ASTM A653, or electrodeposited in accordance with ASTM A879.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of issue - EA (each)

**NSN: 7240-00-161-1143**

COVER, CAN, TRASH AND GARBAGE: The cover shall be designed for extra heavy-duty use and fit a steel 32 gallon trash and garbage can, and shall have the following characteristics:

MATERIAL- Steel

DESIGNED USAGE - Extra heavy duty

TOP HANDLE - Included (1 each)

INSIDE DIAMETER OF COVER - 21-1/8 ± 1/16 inch

COVER THICKNESS - 0.021 inch minimum

COVER HEIGHT- 3 inches (nominal)

NOTE: THIS COVER IS DESIGNED TO BE USED WITH A 32 GALLON GARBAGE CAN KNOW UNDER NSN 7240-00-161-0440

**REINFORCED RIM STRIPS:**

The sides and the top of the cover shall be steel reinforced for rigidity.

**PLATING:**

The can shall be hot-dip galvanized in accordance with ASTM A123 or ASTM A653, or electrodeposited in accordance with ASTM A879.

Copies of ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Phone: 610-832-9585, Fax: 610-832-9555, Web site: [www.astm.org](http://www.astm.org), e-mail: [service@astm.org](mailto:service@astm.org).

Unit of issue - EA (each)

**NSN: 7240-00-282-8411**

CAN, FLAMMABLE WASTE: The safety can (referenced in Figure 1), shall conform to the requirements of Underwriters Laboratories Standard for Metal Waste Cans, UL 32 and be Factory Mutual (FM) Approved and in compliance with OSHA 29, CFR 1910.106. Shall have the following requirements and characteristics:

STYLE - Foot operated safety can

MATERIAL- Coated steel

CONSTRUCTION - Round shaped body with foot operated lid

CAPACITY - 6 gallon  
COLOR - Red enamel  
HEIGHT - 12 inches (nominal)  
DIAMETER - 16 inches (nominal)  
PLATING - Zinc coated as specified in UL 32

DESIGNED USE - Reduce the danger of explosions resulting from the ignition of flammable liquid vapors. The safety can is used in industrial, scientific and hospital applications.

FINISH: The safety can shall be painted. The exterior surfaces shall be painted enameled red, IAW color #11105 and have a yellow band/label, IAW color #13655 as specified in FED STD 595. Supplier may substitute an equivalent commercial color if so desired.

MECHANICAL LINKAGE: All mechanical components shall be designed with sufficient tensile strength to prevent bending, twisting or other subsequent damage during normal operation of components. The mechanical linkage associated with the valve(s) shall be designed with a positive actuating, non-binding linkage, conducive to easy operation and inadvertent closing of the valve when filling or dispensing operations.

WORKMANSHIP: The safety cans shall not have any loose handles/components, rough edges, burrs, scale, soldering or welding slag/flux, pits, cracks, loose or missing hardware components. The can shall not have any uncoated/unpainted areas, paint sags or runs and be free of foreign material in the coated surface. **The safety can shall not leak and be completely assembled and fully operational upon delivery.**

UL 32 CONFORMANCE: The UL 32 standard referenced shall be that issue in effect on the date of issuance of the invitation for bids or request for proposal. Acceptable evidence of compliance with the requirements of UL 30 shall be a UL Label or Listing Mark, or a certified test report from an independent testing laboratory acceptable to the Government indicating the safety can has passed all tests, may be acceptable as evidence of conformance to the requirements of UL 32.

Unit of issue - EA (each)

**NSN: 7240-00-499-8031**

WASTE RECEPTACLE: The waste receptacle assembly shall have a "step-on" (foot operated) cover lifting mechanism, with a removable plastic pail liner (insert) with a bail. Shall have the following requirements and characteristics:

CAPACITY - 5 gallons ± 2 quarts  
COLOR - Natural or white

MATERIAL:

- 1) Outer container, cover, inner pail and foot pedal, shall be plastic, polyethylene or polypropylene
- 2) Cover lifting mechanism for the outer container shall be corrosion resistant metal or plastic
- 3) Bail for inner pail shall be corrosion resistant metal

CONSTRUCTION:

Outer container - Seamless, rigid, one-piece construction with suitable, non-corrosive, step-on cover lifting mechanism enclosed in the outer container with foot pedal protruding out and through the front of the container

Cover - Cover shall be formed with sides and securely hinged to the back of the outer container. The

cover shall be reinforced for rigidity, and activated by the foot pedal and lift mechanism at the bottom of the outer pail

Inner pail - Seamless, rigid, one-piece construction, with non-corrosive metal bail to lay on the rim of inner pail or hang outside the outer container.

**WORKMANSHIP:** Shall be free from flash, blisters, cracks, chips, sharp fins, lumps, embedded foreign material, mold marks, and other defects affecting appearance, serviceability or proper operation of the container. The foot pedal and cover lift mechanism shall be designed for smooth and easy operation. The foot pressure to the pedal shall not affect stability or stationary position of an empty receptacle. The inner pail shall not leak when filled to the rim with water.

Unit of issue - EA (each)

**NSN: 7240-00-634-0001**

**WASTE RECEPTACLE:** Shall conform and be listed with Underwriters Laboratories Standard for Safety for Metal Waste Cans, UL 32. In addition the waste containers shall be listed/approved as a non-combustible waste container by the California Department of Forestry & Fire Protection, Office of the State Fire Marshal (CSFM). Shall comply with the following requirements and characteristics:

The waste receptacle shall be fabricated from corrosion-resistant metal with a hinged cover operated by foot pedal (similar to Figure 1).

TYPE - Step-on waste receptacle  
MATERIAL - Steel  
LINER - Galvanized steel liner  
SHAPE - Round  
BAIL - Included  
CAPACITY – 3 Gallons (minimum, 3.5 gallons maximum)  
COLOR - White  
HEIGHT - 17 inches (nominal)  
DIAMETER – 11 inches (nominal)

**UL 32 CONFORMANCE:** The UL 32 standard referenced shall be that issue in effect on the date of issuance of the invitation for bids or request for proposal. UL listing of the can may be acceptable as proof of conformance with UL 32.

**WORKMANSHIP:** The waste receptacle and liner assembly shall be free from flash, blisters, cracks, chips, sharp fins, lumps, embedded foreign material, mold marks, and other defects affecting appearance, serviceability or proper operation of the receptacle. The step-on pedal and associated linkage shall be made from durable material, shall not become deformed and provide a smooth open and closing operation of the lid. The receptacle or liner shall not produce any leakage when filled with water.

Unit of issue - EA (each)

**NSN: 7240-00-819-7735**

**WASTE RECEPTACLE:** The waste receptacle and lid shall be in accordance with NSF/ANSI Standard 21-2009 and shall have the following characteristics:

MATERIAL - Polyethylene (PE) or polyethylene copolymer  
STYLE - Round, free standing w/o insert  
CAPACITY - 32 gallons

OVERALL HEIGHT - 28 inches (nominal)  
OVERALL DIAMETER - 22 inches (nominal)  
RECEPTACLE COLOR - Gray  
LID COLOR - Gray or black

**CONSTRUCTION:**

- (a) Molded one piece and watertight
- (b) Interior and exterior surfaces shall allow for easy cleaning
- (c) Two diametrically positioned handles located near top edge
- (d) Lids shall have a handle for easy removal and a means for locking the lid securely to the receptacle

**EXCEPTION TO NSF/ANSI 21-2009 STANDARD:**

1) Paragraph 6.2.1.1, delete reference to  $-29^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$  ( $-20^{\circ}\text{F} \pm 1^{\circ}\text{F}$ ) for a minimum of 24 hours conditioning prior to test. The manufacturer has the latitude to test in accordance with normal commercial conditional practices.

**WORKMANSHIP:** Shall be free from seams, flash, blisters, cracks, chips, sharp fins, sharp edges, lumps, imbedded foreign material, and any sign of corrosion on metal handles.

UNIT OF ISSUE - EA (each)

**NSN: 7240-00-965-4427**

**WASTE RECEPTACLE:** The plastic waste receptacle(s) with removable lid(s), shall be in accordance with NSF/ANSI 21, dated 2009, and shall have the following characteristics:

MATERIAL - Polyethylene or polypropylene  
CAPACITY - 10 gallons  
OVERALL HEIGHT - 17.50 inches (nominal)  
OVERALL DIAMETER - 15.50 inches (nominal)  
RECEPTACLE COLOR - Gray  
COVER STYLE - Removable  
COVER COLOR - Gray or black

**CONSTRUCTION:**

- (a) Molded one piece and watertight
- (b) Interior and exterior surfaces shall allow for easy cleaning
- (c) Two diametrically positioned handles located near top edge
- (d) Lids shall have a handle for easy removal and a means for locking the lid securely to the receptacle

**EXCEPTION TO NSF/ANSI 21-2009 STANDARD:**

1) Paragraph 6.2.1.1, delete reference to  $-29^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$  ( $-20^{\circ}\text{F} \pm 1^{\circ}\text{F}$ ) for a minimum of 24 hours conditioning prior to test. The manufacturer has the latitude to test in accordance with normal commercial conditional practices.

Unit of Issue - EA (each)

**NSN: 7240-01-411-0584**

**CONTAINER, WASTE STORAGE (ODOR BARRIER BAG):** Shall be in accordance with MIL-PRF-29597C, with amendment 3, dated July 21, 2010 with the following characteristics;

TYPE 1: Standard (Surface Ship use only)  
Class 1: Pressure Sensitive Adhesive Closure  
Size B: 27 X 24 inches.

Unit of issue - Box (BX) containing 100 each (EA) bags

**NSN: 7240-01-411-0585**

CONTAINER, WASTE STORAGE (ODOR BARRIER BAG): Shall be a flexible odor barrier bag used for disposal of food contaminants, in accordance with MIL-PRF-29597C w/Amendment 3 dated July 21, 2010 with the following characteristics:

Type 1 – Standard (Surface ships use only)  
Class 1 – Pressure sensitive adhesive closure.  
Size A - 50 inches long X 36 inches wide when close.

Barrier material. Barrier material shall meet all of the performance requirements in table I ,3.2.1.1, and 3.2.2 of this specification.

**EXCEPTION TO THE SPECIFICATION:**

1) Page 3, Requirement in paragraph 3.3.1, that states: “The PSA shall be covered with a release liner that extends past the edge (width) of the bag, “delete the word “past” and substitute “to” in its place.

Unit of issue - BX (box containing fifty (50) bags)

**NSN: 8105-00-022-1319**

BAG, PAPER

ITEM NAME - BAG, PAPER (GROCERY, SELF OPENING)  
I.A.W. - UU-B-36  
TYPE I - SELF OPENING  
GRADE B - HEAVY DUTY

OVERALL FACE WIDTH - 12.00 INCHES  
OVERALL BAG LENGTH - 17.00 INCHES  
OVERALL BOTTOM WIDTH - 7.000 INCHES  
OVERALL CAPACITY - 1386 CUBIC INCHES  
BASIS WEIGHT - 75.00 LBS (24.00 INCHES X 36.00 INCHES PER 500 SHEETS, SINGLE WALL)

BURSTING STRENGTH - 46 PSI I.A.W. TAPPI T-403  
INTERNAL TEAR RESISTANCE - 137 GRAMS MINIMUM, IN MACHINE DIRECTION I.A.W. TAPPI T-414 (SHALL BE DETERMINED ON THE PAPER BEFORE BAGS ARE MADE)

SIZE - 1/6 DUPLEX  
PACKAGING QUANTITY OF BAGS - 250 OR 500 BAGS PER PACKAGE  
PACKING QUANTITY PER BALE - 500 BAGS PER BALE

PACKAGING/PACKING: Five hundred (500) bags shall be packaged into a bale and completely wrapped in strong paper or plastic in accordance with normal commercial practice to withstand multiple shipments. The bale shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

POSTCONSUMER RECOVERED MATERIAL FOR BROWN PAPERS AND BAGS:

Brown papers include wrapping papers and bags.

(Brown Papers): The contractor shall certify that the product offered shall include a range of 5 - 20 % postconsumer recovered material, including a minimum range of 5 - 40 % Recovered fiber in accordance with EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

UI: BE (500 BAGS PER BALE)

**NSN: 8105-00-145-0163**

BAG, PLASTIC, GENERAL PURPOSE (RIP RESISTANT):

ITEM NAME: BAG, PLASTIC, GENERAL PURPOSE (RIP-RESISTANT): IN ACCORDANCE WITH THE FOLLOWING STIPULATIONS:

OPEN BAG PERIMETER - 351.00 CENTIMETERS (138 INCHES) MINIMUM

FLAT BAG PERIMETER - 175.00 CENTIMETERS (69 INCHES) EQUIVALENT TO A FACE WIDTH

MINIMUM HEIGHT - 145.00 CENTIMETERS (57 INCHES) WHEN MEASURED FROM THE TOP OF THE SEAL TO THE EDGE OF THE BAG.

MAXIMUM HEIGHT - 175.00 CENTIMETERS (69 INCHES)  
(HEIGHT NOTE BAGS OTHER THAN FLAT STYLE ARE ACCEPTABLE. HOWEVER, TO COMPENSATE FOR BUNCHING AT THE SEAL, THE BAG HEIGHT SHALL BE INCREASED BEYOND 145 CM (57 INCHES) BY NOT LESS THAN 0.16 TIMES THE DIFFERENCE IN LENGTH BETWEEN THE ACTUAL LENGTH OF THE SEAL AND 175 CM (69 INCHES)).

TYPE - HEAVY DUTY

DUTY RATING - HEAVY, TEST LOAD SHALL WEIGH 34 KG (75 POUNDS)  
COLOR - CLEAR

QUANTITY PER BOX 100

CONSTRUCTION - BAGS SHALL BE MADE FROM PLASTIC RESIN, MODIFIED AS NECESSARY SO THAT THE BAGS CONFORM TO THE FOLLOWING REQUIREMENTS:

IMPACT RESISTANCE TEST: IN ACCORDANCE WITH ASTM-D-1709, METHOD A, THE MATERIAL SHALL HAVE A MINIMUM IMPACT RESISTANCE OF 165 GRAMS.

TEAR RESISTANCE TEST: IN ACCORDANCE WITH ASTM-D-1922, THE MATERIAL SHALL HAVE A MINIMUM TEAR RESISTANCE IN EACH DIRECTION OF 480 GRAMS.

SEAL CONTINUITY TEST: BAGS SHALL BE PLACED IN A CLEAN CONTAINER WITH SMOOTH SIDES WHILE ADDING THE WATER. 17 LITERS OF WATER ARE Poured INTO THE BAG. THE TEST IS TO BE PERFORMED AT 21 +/- 3 DEGREES C. THE BAG SHALL BE GRASPED OR CLAMPED WITHIN 30 CM (12 INCHES) OF THE TOP, REMOVED FROM THE CONTAINER AND RAISED BY HAND OR MECHANICAL MEANS UNTIL THE BOTTOM OF THE BAG IS NOT LESS THAN 30 CM (12 INCHES) FROM THE FLOOR. THE BAG SHALL BE HELD IN THIS POSITION FOR 60 SECONDS. ANY LEAKAGE CONSTITUTES FAILURE OF THE TEST. IF 1 OR MORE OF THE 5 BAGS SELECTED FOR THIS TEST FAIL, THE LOT SHALL BE REJECTED.

PACKAGING/PACKING: One Hundred (100) plastic bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

#### EXCEPTION(S) TO SPECIFICATION

PRODUCT CERTIFICATION: If equal commercial product is provided, it is the responsibility of the supplier to ensure that the equal product meets the requirements of the original product indicated on the purchase description. Supplier may utilize any testing facility to verify that the product is in fact equal to the original, or better. Written certification of conformance is acceptable, unless otherwise specified. The government reserves the right to require proof of such conformance, and/or perform any necessary independent testing.

Regulatory requirement (Plastic Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/consERVE/tools/cpg/index.htm](http://www.epa.gov/epawaste/consERVE/tools/cpg/index.htm)

UI: BX (One Hundred (100) plastic bags per box)

#### **NSN: 8105-00-200-0195**

BAG, PLASTIC

IAW CID A-A-3174, DATED OCTOBER 15, 1998

PLASTIC SHEET, POLYOLEFIN

ITEM NAME - BAG, PLASTIC, GENERAL PURPOSE (RIP-RESISTANT)

OVER ALL FACE WIDTH - 24.00 INCHES

OVER ALL HEIGHT - 24.00 INCHES

OVERALL PERIMETER - 48.00 INCHES AS MEASURED AROUND THE TOP EDGE OF THE FULLY OPENED BAG

FLAT BAG NOMINAL PERIMETER 24.00 INCHES

OVERALL LOAD CAPACITY - 25.00 POUNDS

COLOR – CLEAR

MATERIAL- PLASTIC POLYOLEFIN

ASSEMBLY METHOD - HEAT SEAL

DUTY RATING - HEAVY-TEST LOAD SHALL WEIGH 11 POUNDS (25KG)

STYLE DESIGNATOR – FLAT

OPENING LOCATION - ONE SIDE

ASSEMBLY METHOD - HEAT SEAL

APPLICATION - DESIGNED FOR USE AS AN OFFICE TRASH BAG; SUITABLE FOR LIQUID WASTE MUST PASS LOAD CAPACITY AND SEAL COMMUNITY TESTS

ENVIRONMENTAL PROTECTION WATERPROOF SEAM; TEAR RESISTANT

MINIMUM IMPACT RESISTANCE 165 GRAMS IAW ASTM-D-1709, METHOD A

MINIMUM TEAR RESISTANCE 480 GRAMS IAW ASTM-D-1922

LOAD CAPACITY TEST: PLACE OPEN BAG ON SMOOTH, HORIZONTAL SURFACE. GENTLY INSERT FULL METAL FOOD CANS, EACH WEIGHING BETWEEN 1 AND 2 POUNDS IN THE BAG AND GRASP OR CLAMP WITHIN 12 INCHES OF THE TOP AND RAISED BY HAND UNTIL THE BAG IS NOT LESS THAN 12 INCHES FROM THE FLOOR AND HELD FOR NOT LESS THAN 60 SECONDS.

LOAD CAPACITY TEST FAILURE ANY SPILLAGE OF THE TEST LOAD CONSTITUTES FAILURE; IF 1 OR MORE OF THE 5 BAGS TESTED FAILS, THE LOT SHALL BE REJECTED.

SEAL CONTINUITY TEST: PLACE BAGS IN A CLEAN CONTAINER WHILE ADDING 5.5 LITERS OF WATER PERFORMED AT 21 +/-3 DEGREES C. GRASP OR CLAMP WITHIN 12 INCHES OF THE TOP, REMOVED FROM THE CONTAINER AND RAISED BY HAND UNTIL THE BAG IS NOT LESS THAN 12 INCHES FROM THE FLOOR AND HELD FOR NOT LESS THAN 60 SECONDS. SEAL CONTINUITY TEST FAILURE ANY LEAKAGE OF THE TEST LOAD CONSTITUTES FAILURE; IF 1 OR MORE OF THE 5 BAGS TESTED FAILS, THE LOT SHALL

PACKAGING/PACKING: One hundred (100) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/consERVE/tools/cpg/index.htm](http://www.epa.gov/epawaste/consERVE/tools/cpg/index.htm)

UI: BX (One hundred (100) bags per box)

**NSN: 8105-00-262-7363**

BAG, PAPER (BURN BAG)

ITEM NAME	BAG, PAPER (BURN BAG)
OVERALL LENGTH	21.50 INCHES
OVERALL WIDTH	12.00 INCHES
OVERALL TUCK WIDTH	07.00 INCHES
NOMINAL CAPACITY	1800 CUBIC INCHES
BASIS WEIGHT	70 LBS PER 500 SHEETS (24 X 36 INCHES) SINGLE WALL
COLOR	RED AND WHITE DIAGONAL STRIPED PATTERN
MATERIAL	PAPER OVERALL

PACKAGING/PACKING: Two hundred fifty (250) bags shall be packaged into a bale and completely wrapped in strong paper or plastic in accordance with normal commercial practice to withstand multiple shipments. The bale shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

**Regulatory Requirements: The offerer/contractor is encouraged to use recovered materials to the maximum extent practicable in accordance with paragraph 23.403 of the Federal Acquisition Regulations (FAR).**

WORKMANSHIP: The material shall be uniformly fabricated in accordance with good commercial practice, and free from cracks, cuts, holes, chafed spots, or other defects which impair its usefulness. The material shall be free from dirt, contamination, mold release compounds, or other foreign matter.

UI: BE (Two hundred fifty (250) bags shall be packaged into a bale)

**NSN: 8105-00-271-1485**

BAG, PAPER

ITEM NAME	BAG, PAPER (GROCERY, SELF OPENING)
OVERALL WIDTH	7.125 INCHES (+/- 5 PERCENT)
OVERALL HEIGHT	13.75 INCHES (+/- 5 PERCENT)
OVERALL DEPTH	4.50 INCHES (+/- 5 PERCENT)
MINIMUM BASIS WEIGHT	40.00 POUNDS (24 IN. X 36 IN. PER 500 SHEETS), SINGLE WALL.
OVERALL BAG CAPACITY	424 CUBIC INCHES
COMMERCIAL BAG SIZE	NUMBER 12
COLOR	NATURAL
MATERIAL	KRAFT PAPER
GRADE	NORMAL DUTY
MINIMUM BURSTING STRENGTH	22 PSI IN ACCORDANCE WITH TAPPI-T-403
ENVIRONMENTAL PROTECTION	TEAR RESISTANT I.A.W. TAPPI-T-414
TEAR RESISTANCE DIRECTION	63 GRAMS MINIMUM IN MACHINE DIRECTION TO BE DETERMINED ON THE PAPER BEFORE BAGS ARE MADE

PACKAGING/PACKING: One thousand (1,000) bags shall be packaged in a bale in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory Requirements: The offerer/contractor is encouraged to use recovered materials to the maximum extent practicable in accordance with paragraph 23.403 of the Federal Acquisition Regulations (FAR).

UI: BE (One thousand (1,000) bags shall be packaged in a bale)

**NSN: 8105-00-281-1156**

ITEM NAME: BAG (GROCERY, SELF OPENING)

IAW: UU-B-36  
GRADE A  
TYPE I

OVERALL HEIGHT	5.875 INCHES (MEASURED FROM TOP TO SEAM)
OVERALL FACE WIDTH	3.000 INCHES
OVERALL BAG DEPTH	1.750 INCHES
OVERALL BAG CAPACITY	30.00 CUBIC INCHES
BASIS WEIGHT AND LOCATION	30.00 LBS (24 INCH X 36 INCH PER 500 SHEETS), SINGLE WALL
MATERIAL	PAPER; 90 PERCENT UNBLEACHED SULFATE, 10 PERCENT MAY BE CHEMICAL PULP
ASSEMBLY METHOD	GLUED
COLOR	NATURAL
OPENING LOCATION	ONE END
STYLE DESIGNATOR	SELF-OPENING / AUTOMATIC
<b>UNIT OF ISSUE</b>	<b>ONE BALE - 10,000 BAGS</b>

PACKAGING/PACKING: Bags shall be packaged into a bale and completely wrapped in strong paper or plastic in accordance with normal commercial practice to withstand multiple shipments. The bale shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

POSTCONSUMER RECOVERED MATERIAL FOR BROWN PAPERS AND BAGS:

Brown papers includes wrapping papers and bags.

(Brown Papers): The contractor shall certify that the product offered shall include a range of 5 - 20 % postconsumer recovered material, including a minimum range of 5 - 40 % Recovered fiber in accordance with EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/consERVE/tools/cpg/index.htm](http://www.epa.gov/epawaste/consERVE/tools/cpg/index.htm)

UI: BE (bale) (ten thousand (10,000) bags shall be packaged into a bale)

**NSN: 8105-00-281-1158**

ITEM NAME BAG, PAPER (GROCERY, SELF OPENING)

I.A.W. GRADE 1 - NORMAL DUTY.  
SIZE B - COMMERCIAL BAG NUMBER 2

OVERALL HEIGHT	8.125 INCHES
OVERALL FACE WIDTH	4.250 INCHES
OVERALL BASE WIDTH	2.375 INCHES
OVERALL CAPACITY	81 CUBIC INCHES
BASIS WEIGHT	30 POUNDS PER 500 SHEETS, 24 INCHES X 36 INCHES, SINGLE WALL.

BURSTING STRENGTH 15 PSI I.A.W. TAPPI-T-403.  
SPECIAL FEATURE SELF-OPENING

INTERNAL TEAR RESISTANCE 38 GRAMS IN MACHINE DIRECTION, I.A.W. TAPPI-T-414,  
SHALL BE DETERMINED ON THE PAPER BEFORE BAGS  
ARE MADE.

PACKAGING/PACKING: Six thousand (6000) bags shall be packaged into a bale and completely wrapped in strong paper or plastic in accordance with normal commercial practice to withstand multiple shipments. The bale shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

POSTCONSUMER RECOVERED MATERIAL FOR BROWN PAPERS AND BAGS:

Brown papers includes wrapping papers and bags.

(Brown Papers): The contractor shall certify that the product offered shall include a range of 5 - 20 % postconsumer recovered material, including a minimum range of 5 - 40 % Recovered fiber in accordance with EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

UI: BE (bale) (Six thousand (6000) bags shall be packaged into a bale)

**NSN: 8105-00-281-1163**

ITEM NAME: BAG, PAPER (GROCERY, SELF OPENING)

I.A.W. UU-B-36J  
TYPE I  
GRADE A

OVERALL FACE WIDTH 5.250 INCHES  
OVERALL HEIGHT 10.750 INCHES  
OVERALL BOTTOM WIDTH 3.375 INCHES  
OVERALL CAPACITY 187.000 CUBIC INCHES  
SUBSTANCE WEIGHT 35 LBS NOMINAL 24 IN X 36 IN PER 500 SHEETS, SINGLE WALL  
OVERALL SIZE COMMERCIAL BAG NUMBER 5  
MINIMAL BURSTING STRENGTH 18 PSI IN ACCORDANCE WITH TAPPI-T-403  
MINIMAL TEAR RESISTANCE 50 GRAMS IN ACCORDANCE WITH TAPPI-T-414  
OVERALL COLOR NATURAL  
USAGE FORM BAG  
GRAIN KRAFT  
ASSEMBLY METHOD GLUED  
UNIT PACKAGE QUANTITY 500 BAGS PER BUNDLE  
UNIT PACKAGING QUANTITY 6 BUNDLES PER BALE

PACKAGING/PACKING: Three thousand (3000) bags shall be packaged into a bale and completely wrapped in strong paper or plastic in accordance with normal commercial practice to withstand multiple shipments. The bale shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

POSTCONSUMER RECOVERED MATERIAL FOR BROWN PAPERS AND BAGS:

Brown papers includes wrapping papers and bags.

(Brown Papers): The contractor shall certify that the product offered shall include a range of 5 - 20 % postconsumer recovered material, including a minimum range of 5 - 40 % Recovered fiber in accordance with EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

UI: BE (bale) (three thousand (3000) bags shall be packaged into a bale)

**NSN: 8105-00-281-1425**

ITEM NAME	BAG, PAPER (GROCERY, SELF OPENING)
I.A.W.	UU-B-36 GRADE 1 - NORMAL DUTY. SIZE D - COMMERCIAL BAG NUMBER 8
OVERALL HEIGHT	12.750 INCHES
OVERALL FACE WIDTH	6.250 INCHES
OVERALL BOTTOM WIDTH	3.750 INCHES
BASIS WEIGHT	35 POUNDS PER 500 SHEETS, PER 24 INCHES X 36 INCHES, SINGLE WALL
OVERALL CAPACITY	298 CUBIC INCHES
BURSTING STRENGTH	18 PSI I.A.W. TAPPI-T-403.
INTERNAL TEAR RESISTANCE	50 GRAMS IN MACHINE DIRECTION, I.A.W. TAPPI-T-414, AND SHALL BE DETERMINED ON THE PAPER BEFORE. BAGS ARE MADE

PACKAGING/PACKING: Two thousand (2000) bags shall be packaged into a bale and completely wrapped in strong paper or plastic in accordance with normal commercial practice to withstand multiple shipments. The bale shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

**POSTCONSUMER RECOVERED MATERIAL FOR BROWN PAPERS AND BAGS:**

Brown papers includes wrapping papers and bags.

(Brown Papers): The contractor shall certify that the product offered shall include a range of 5 - 20 % postconsumer recovered material, including a minimum range of 5 - 40 % Recovered fiber in accordance with EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

UI: BE (Two thousand (2000) bags shall be packaged into a bale)

**NSN: 8105-00-281-1429**

ITEM NAME	BAG, PAPER (GROCERY, SELF OPENING)
OVERALL FACE WIDTH	8.250 INCHES
OVERALL HEIGHT	17.875 INCHES
CAPACITY	763.000 CUBIC INCHES
BASIS WEIGHT	40 LBS MINIMUM (24 IN X 36 IN. PER 500 SHEETS), SINGLE WALL
BAG SIZE	COMMERCIAL BAG NUMBER 25



**NSN: 8105-00-543-7169**

ITEM NAME: BAG, PAPER (GROCERY, SELF OPENING)

I.A.W. UU-B-36  
GRADE 1 - NORMAL DUTY  
SIZE K - COMMERCIAL BAG NUMBER BBL

OVERALL HEIGHT 23.250 INCHES  
OVERALL FACE WIDTH 11.000 INCHES  
OVERALL BOTTOM WIDTH 7.000 INCHES  
OVERALL CAPACITY 1746 CUBIC INCHES  
MINIMUM BASIS WEIGHT 60 POUNDS PER 500 SHEETS, 24 INCHES X 36 INCHES,  
SINGLE WALL

MINIMUM BURSTING STRENGTH - 36 PSI IN ACCORDANCE WITH TAPPI-T-403.  
INTERNAL TEAR RESISTANCE - 110 GRAMS MINIMUM, IN MACHINE DIRECTION, I.A.W.  
APPI-T-414, AND SHALL BE DETERMINED ON THE PAPER  
BEFORE BAGS ARE MADE.

ASSEMBLY METHOD GLUED  
MATERIAL AND LOCATION PAPER, KRAFT SINGLE WALL  
OPENING LOCATION ONE END, SELF OPENING  
REINFORCEMENT LOCATION ANY ACCEPTABLE  
OVERALL COLOR NATURAL

PACKAGING/PACKING: Two hundred fifty (250) bags shall be packaged into a bale and completely wrapped in strong paper or plastic in accordance with normal commercial practice to withstand multiple shipments. The bale shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

POSTCONSUMER RECOVERED MATERIAL FOR BROWN PAPERS AND BAGS:

Brown papers includes wrapping papers and bags.

(Brown Papers): The contractor shall certify that the product offered shall include a range of 5 - 20 % postconsumer recovered material, including a minimum range of 5 - 40 % Recovered fiber in accordance with EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

UI: BE (Two hundred fifty (250) bags shall be packaged into a bale)

**NSN: 8105-00-579-8451**

ITEM NAME BAG, PLASTIC  
TYPE MEDIUM DUTY  
DUTY RATING MEDIUM, TEST LOAD SHALL WEIGH 11 KG (25 POUNDS)  
COLOR CLEAR  
QUANTITY PER BOX 100

FULLY OPENED BAG PERIMETER 72.00 INCHES MINIMUM (WHEN MEASURED AROUND  
THE TOP EDGE OF THE FULLY OPENED BAG)

FLAT BAG PERIMETER	36.00 INCHES FACE WIDTH
FLAT BAG HEIGHT	38.00 INCHES HIGH MINIMUM (WHEN MEASURED FROM THE TOP OF THE SEAL TO THE EDGE OF THE BAG)
IMPACT RESISTANCE	MINIMUM OF 110 GRAMS (IAW: ASTM-D-1709, METHOD A)
TEAR RESISTANCE	MINIMUM OF 240 GRAMS IN EACH DIRECTION (IAW: ASTM-D-1922)

NOTE BAGS OTHER THAN FLAT STYLE ARE ACCEPTABLE. HOWEVER, TO COMPENSATE FOR BUNCHING AT THE SEAL, THE BAG HEIGHT SHALL BE 0.16 TIMES THE DIFFERENCE IN LENGTH BETWEEN THE ACTUAL LENGTH OF THE SEAL AND 36.00 INCHES.

SEAL CONTINUITY TEST: BAGS SHALL BE PLACED IN A CLEAN CONTAINER WITH SMOOTH SIDES WHILE ADDING THE WATER. 17 LITERS OF WATER ARE Poured INTO THE BAG. THE TEST IS TO BE PERFORMED AT 21 +/- 3 DEGREES C. THE BAG SHALL BE GRASPED OR CLAMPED WITHIN 12.00 INCHES OF THE TOP, REMOVED FROM THE CONTAINER AND RAISED BY HAND OR MECHANICAL MEANS UNTIL THE BOTTOM OF THE BAG IS NOT LESS THAN 12.00 INCHES FROM THE FLOOR. THE BAG SHALL BE HELD IN THIS POSITION FOR 60 SECONDS. ANY LEAKAGE CONSTITUTES FAILURE OF THE TEST. IF 1 OR MORE OF THE 5 BAGS SELECTED FOR THIS TEST FAIL, THE LOT SHALL BE REJECTED.

PACKAGING/PACKING: One-Hundred (100) plastic bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

UI: BX (One-Hundred (100) plastic bags per box)

**NSN: 8105-00-726-5607**

ITEM NAME	BAG, PLASTIC
TYPE	MEDIUM DUTY
DUTY RATING	MEDIUM, TEST LOAD SHALL WEIGH 23 KG (51 POUNDS)
MATERIAL	PLASTIC RESIN OVERALL
COLOR	CLEAR
FULLY OPENED BAG PERIMETER	80.00 INCHES MINIMUM (WHEN MEASURED AROUND THE TOP EDGE OF THE FULLY OPENED BAG)
FLAT BAG PERIMETER	40.00 INCHES FACE WIDTH
FLAT BAG HEIGHT	48.00 INCHES HIGH MINIMUM (WHEN MEASURED FROM THE TOP OF THE SEAL TO THE EDGE OF THE BAG)
IMPACT RESISTANCE	A MINIMUM OF 110 GRAMS (IAW: ASTM-D-1709, METHOD A)
TEAR RESISTANCE	A MINIMUM OF 240 GRAMS IN EACH DIRECTION (IAW: ASTM-D-1922)

QUANTITY PER BOX                      125 BAGS

NOTE: BAGS OTHER THAN FLAT STYLE ARE ACCEPTABLE. HOWEVER, TO COMPENSATE FOR BUNCHING AT THE SEAL, THE BAG HEIGHT SHALL BE 0.16 TIMES THE DIFFERENCE IN LENGTH BETWEEN THE ACTUAL LENGTH OF THE SEAL AND 40.00 INCHES.

SEAL CONTINUITY TEST: BAGS SHALL BE PLACED IN A CLEAN CONTAINER WITH SMOOTH SIDES WHILE ADDING THE WATER. 17 LITERS OF WATER ARE Poured INTO THE BAG. THE TEST IS TO BE PERFORMED AT 21 +/- 3 DEGREES C. THE BAG SHALL BE GRASPED OR CLAMPED WITHIN 12.00 INCHES OF THE TOP, REMOVED FROM THE CONTAINER AND RAISED BY HAND OR MECHANICAL MEANS UNTIL THE BOTTOM OF THE BAG IS NOT LESS THAN 12.00 INCHES FROM THE FLOOR. THE BAG SHALL BE HELD IN THIS POSITION FOR 60 SECONDS. ANY LEAKAGE CONSTITUTES FAILURE OF THE TEST. IF 1 OR MORE OF THE 5 BAGS SELECTED FOR THIS TEST FAIL, THE LOT SHALL BE REJECTED.

PACKAGING/PACKING: One-hundred twenty five (125) bags shall be packaged in a box in accordance with normal commercial practice. The shipping container shall be in compliance with the national motor freight classification and the uniform freight classification. Weight of the shipping container shall not exceed 51 pounds.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conservation/tools/cpg/index.htm](http://www.epa.gov/epawaste/conservation/tools/cpg/index.htm)

UI: BX (One-hundred twenty five (125) bags shall be packaged in a box)

**NSN: 8105-00-759-0794**

ITEM NAME	BAG, PLASTIC:
TYPE	HEAVY DUTY
DUTY RATING	HEAVY, TEST LOAD SHALL WEIGH 34 KG (75 POUNDS)
COLOR	CLEAR
QUANTITY PER BOX	50
FULLY OPENED BAG PERIMETER	76.00 INCHES MINIMUM (WHEN MEASURED AROUND THE TOP EDGE OF THE FULLY OPENED BAG)
FLAT BAG PERIMETER	38.00 INCHES FACE WIDTH
FLAT BAG HEIGHT	65.00 INCHES HIGH MINIMUM (WHEN MEASURED FROM THE TOP OF THE SEAL TO THE EDGE OF THE BAG)
IMPACT RESISTANCE	A MINIMUM OF 165 GRAMS (IAW: ASTM-D-1709, METHOD A)

TEAR RESISTANCE: A MINIMUM OF 480 GRAMS IN EACH DIRECTION (IAW: ASTM-D-1922  
NOTE BAGS OTHER THAN FLAT STYLE ARE ACCEPTABLE. HOWEVER, TO COMPENSATE FOR BUNCHING AT THE SEAL, THE BAG HEIGHT SHALL BE 0.16 TIMES THE DIFFERENCE IN LENGTH BETWEEN THE ACTUAL LENGTH OF THE SEAL AND 38.00 INCHES.

SEAL CONTINUITY TEST: BAGS SHALL BE PLACED IN A CLEAN CONTAINER WITH SMOOTH SIDES WHILE ADDING THE WATER. 17 LITERS OF WATER ARE Poured INTO THE BAG. THE TEST IS TO BE PERFORMED AT 21 +/- 3 DEGREES C. THE BAG SHALL BE GRASPED OR CLAMPED WITHIN 12.00 INCHES OF THE TOP, REMOVED FROM THE CONTAINER AND RAISED BY HAND OR MECHANICAL MEANS UNTIL THE BOTTOM OF THE BAG IS NOT LESS THAN 12.00 INCHES FROM THE FLOOR. THE BAG SHALL BE HELD IN THIS POSITION FOR 60 SECONDS. ANY LEAKAGE CONSTITUTES FAILURE OF THE TEST. IF 1 OR MORE OF THE 5 BAGS SELECTED FOR THIS TEST FAIL, THE LOT SHALL BE REJECTED.

PACKAGING/PACKING: Fifty (50) plastic bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

UI: BX (Fifty (50) plastic bags shall be packaged in a box)

**NSN: 8105-00-835-7212**

ITEM NAME	BAG, MOTION SICKNESS
I.A.W	TYPE II - HIGH STRENGTH POLYETHYLENE GRADE C - HIGH SLIP FINISH 1 - UNTREATED
OVERALL FACE WIDTH	6.125 INCHES
OVERALL GUSSET WIDTH	3.000 INCHES
OVERALL HEIGHT	12.00 INCHES
BAG CUBIC CAPACITY	220.5 CUBIC INCHES
CLOSURE LENGTH	4.000 INCHES MINIMUM
CLOSURE	TWIST STYLE TIE OR OTHER CLOSING DEVICE
OVERALL COLOR	NATURAL
BAG CONSTRUCTION	SQUARE IN SHAPE OVERALL
MATERIAL AND LOCATION	POLYETHYLENE OVERALL, SINGLE WALL, PACKED IN PAPER OR POLYETHYLENE ENVELOPE

LEGEND - THE ENVELOPE CONTAINING BAGS SHALL HAVE THE FOLLOWING LEGEND PRINTED ON IT IN CHARACTERS NOT LESS THAN 1/8" HIGH UP

"MOTION SICKNESS BAGS"

"FOR USE DURING MOMENTS OF STOMACH UPSET. IF AN UPSET STOMACH IS ANTICIPATED, REMOVE BAG FROM THIS CONTAINER AND KEEP READY FOR USE. DO NOT BE EMBARRASSED BY THIS PRECAUTION, AS EVEN VETERAN TRAVELERS ARE SUBJECT TO OCCASIONAL MOTION SICKNESS."

UI: MX (one thousand (1,000) bags)

**NSN: 8105-00-857-2250**

ITEM NAME	BAG, PAPER (SHOPPING)
OVERALL FACE WIDTH	13.000 INCHES
OVERALL BOTTOM WIDTH	7.0000 INCHES
OVERALL HEIGHT	17.000 INCHES
BASIS WEIGHT AND LOCATION	65.000 POUNDS (PER 500 SHEETS 24 X 36) SINGLE WALL
BAG CUBIC CAPACITY	1384.5 CUBIC INCHES
BURSTING STRENGTH - 248 KILOPASCALS MINIMUM, I.A.W. TAPPI T403 INTERNAL TEARING RESISTANCE 1079 MILLINEWTONS AVERAGE, I.A.W. TAPPI T414	
COLOR	BUFF
ASSEMBLY METHOD	GLUED
MATERIAL AND LOCATION	PAPER, KRAFT SINGLE WALL
OPENING LOCATION	ONE END
HANDLE LOCATION - HANDLES FIRMLY ATTACHED AT THE TOP OF THE FRONT FACE AND AT THE TOP OF THE REAR FACE OF THE BAG, CENTERED TO WITHIN 0.51 INCH	
HANDLE SHAPE	LOOP, EXTENDS 3.50 INCHES FROM TOP OF BAG
STYLE DESIGNATOR	SELF-OPENING/AUTOMATIC

Testing of the bags for load capacity - the temperature shall be 17 - 25 deg Celsius and the relative humidity shall be 40 - 60 percent in the area where the bags are tested while the tests are being performed. Load the bag by gently placing 14 + 0.5 kilograms of paper products such as paperbacked books inside the bag. By means of a clamp attached to the handles, suspend the loaded bag so that the bottom is not less than 6 inches above a horizontal surface. After not less than 60 minutes, take the bag down, unload it and examine it carefully. Any tear or break in the handle or in the area where the handle is attached to the bag constitutes failure of this test. Any tear or break in other parts of the bag exceeding 1 inch in length constitutes failure of this test. Any seam separation exceeding 1 inch in length constitutes failure of this test.

PACKAGING/PACKING: Two hundred fifty (250) bags per bundle shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

POSTCONSUMER RECOVERED MATERIAL FOR BROWN PAPERS AND BAGS:

Brown papers include wrapping papers and bags.

(Brown Papers): The contractor shall certify that the product offered shall include a range of 5 - 20 % postconsumer recovered material, including a minimum range of 5 - 40 % Recovered fiber in accordance with EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

UI: BD (Two hundred fifty (250) bags per bundle)

**NSN: 8105-01-150-6256**

ITEM NAME	BAG, PLASTIC
TYPE	HEAVY DUTY
DUTY RATING	HEAVY, TEST LOAD SHALL WEIGH 34 KG (75 POUNDS)
COLOR	CLEAR
QUANTITY PER BOX	125

FULLY OPENED BAG PERIMETER - 64.00 INCHES MINIMUM (WHEN MEASURED AROUND THE TOP EDGE OF THE FULLY OPENED BAG)

FLAT BAG PERIMETER                      32.00 INCHES FACE WIDTH

FLAT BAG HEIGHT - 44.0 INCHES HIGH MINIMUM (WHEN MEASURED FROM THE TOP OF THE SEAL TO THE EDGE OF THE BAG)

IMPACT RESISTANCE	A MINIMUM OF 165 GRAMS (IAW: ASTM-D-1709, METHOD A)
TEAR RESISTANCE	A MINIMUM OF 480 GRAMS IN EACH DIRECTION (IAW: ASTM- D-1922)

NOTE: BAGS OTHER THAN FLAT STYLE ARE ACCEPTABLE. HOWEVER, TO COMPENSATE FOR BUNCHING AT THE SEAL, THE BAG HEIGHT SHALL BE 0.16 TIMES THE DIFFERENCE IN LENGTH BETWEEN THE ACTUAL LENGTH OF THE SEAL AND 32.00 INCHES.

SEAL CONTINUITY TEST. BAGS SHALL BE PLACED IN A CLEAN CONTAINER WITH SMOOTH SIDES WHILE ADDING THE WATER. 17 LITERS OF WATER ARE Poured INTO THE BAG. THE TEST IS TO BE PERFORMED AT 21 +/- 3 DEGREES C. THE BAG SHALL BE GRASPED OR CLAMPED WITHIN 12.00 INCHES OF THE TOP, REMOVED FROM THE CONTAINER AND RAISED BY HAND OR MECHANICAL MEANS UNTIL THE BOTTOM OF THE BAG IS NOT LESS THAN 12.00 INCHES FROM THE FLOOR. THE BAG SHALL BE HELD IN THIS POSITION FOR 60 SECONDS. ANY LEAKAGE CONSTITUTES FAILURE OF THE TEST. IF 1 OR MORE OF THE 5 BAGS SELECTED FOR THIS TEST FAIL, THE LOT SHALL BE REJECTED.

PACKAGING/PACKING: One-Hundred twenty (125) plastic bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

UI: BX (One-Hundred twenty (125) plastic bags per box)

**NSN: 8105-01-174-0941**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	39.000 INCHES
OVERALL WIDTH	33.000 INCHES
ASSEMBLY METHOD	HEAT SEAL
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE SINGLE WALL
OPENING LOCATION	ONE END
DUTY RATING	HEAVY
CAPACITY	33 GALLONS
LOAD CAPACITY	45 LBS
COLOR	NATURAL OVERALL
STYLE DESIGNATOR	FLAT

PACKAGING/PACKING: Two hundred fifty (250) plastic bags per box shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/consERVE/tools/cpg/index.htm](http://www.epa.gov/epawaste/consERVE/tools/cpg/index.htm)

UI: BX (Two hundred fifty (250) plastic bags per box)

**NSN: 8105-01-174-0942**

**BAG, PLASTIC, GENERAL PURPOSE:**

ITEM NAME	BAG, PLASTIC
IAW	TYPE 2
OVERALL FACE WIDTH	33.000 INCHES
OVERALL HEIGHT	39.000 INCHES
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE SINGLE WALL
ASSEMBLY METHOD	HEAT SEAL
OPENING LOCATION	ONE END
DUTY RATING	MEDIUM
CAPACITY	33 GALLONS
LOAD CAPACITY	45 POUNDS
COLOR	NATURAL OVERALL
STYLE DESIGNATOR	FLAT
UNIT PACKAGE QUANTITY	500 BAGS PER BOX

PACKAGING/PACKING: Five hundred (500) plastic bags per box shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

UI: BX (Five hundred (500) plastic bags per box)

**NSN: 8105-01-174-0943**

**BAG, PLASTIC, GENERAL PURPOSE**

ITEM NAME	BAG, PLASTIC
IAW	TYPE 1
OVERALL FACE WIDTH	33.00 INCHES
OVERALL HEIGHT	39.00 INCHES
OVERALL PERIMETER	66.00 INCHES AS MEASURED AROUND THE TOP EDGE OF THE FULLY OPENED BAG
OVERALL FLAT BAG PERIMETER	33.00 INCHES
OVERALL MATERIAL THICKNESS	1.181 INCHES
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE SINGLE WALL
ASSEMBLY METHOD	HEAT SEAL
OPENING LOCATION	ONE SIDE
DUTY RATING	LIGHT-TEST LOAD SHALL WEIGH 25 POUNDS (11 KG)
CAPACITY	33 GALLONS
LOAD CAPACITY	45 POUNDS
DENSITY TYPE	HIGH
COLOR	NATURAL OVERALL
STYLE DESIGNATOR	FLAT
SPECIAL FEATURES	DESIGNED FOR USE AS AN OFFICE TRASH BAG
UNIT PACKAGE QUANTITY	500 BAGS PER BOX

PACKAGING/PACKING: Five hundred (500) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

UI: BX (Five hundred (500) bags shall be packaged in a box)

**NSN: 8105-01-174-0945**

**BAG, PLASTIC, GENERAL PURPOSE:**

ITEM NAME:	BAG, PLASTIC, GENERAL PURPOSE
NOMINAL FACE WIDTH	24.0 INCHES
NOMINAL HEIGHT	25.0 INCHES
NOMINAL PERIMETER	48.0 INCHES (122MM) AS MEASURED AROUND THE TOP EDGE OF THE FULLY OPENED BAG
FLAT BAG NOMINAL PERIMETER	24.0 INCHES (61CM)

NOMINAL CAPACITY	7.0 GALLONS MINIMUM TO 10.0 GALLONS MAXIMUM
NOMINAL LOAD CAPACITY	15.0 POUNDS
DENSITY TYPE	HIGH
DUTY RATING	HEAVY-TEST LOAD SHALL WEIGH 25 POUNDS (11 KG)
STYLE DESIGNATOR	FLAT
OPENING LOCATION	ONE SIDE
ASSEMBLY METHOD	HEAT SEAL
COLOR	NATURAL OVERALL
MATERIAL AND LOCATION	PLASTIC
SPECIAL FEATURES	DESIGNED FOR USE AS AN OFFICE TRASH BAG; MUST PASS LOAD CAPACITY AND SEAL CONTINUITY TESTS

MINIMUM IMPACT RESISTANCE 150 GRAMS IAW ASTM-D-1709, METHOD A

LOAD CAPACITY TEST - PLACE OPEN BAG ON SMOOTH, HORIZONTAL SURFACE. GENTLY INSERT CANS, EACH WEIGHING BETWEEN 1 AND 2 POUNDS IN THE BAG AND GRASP OR CLAMP WITHIN 12 INCHES OF THE TOP AND RAISED BY HAND UNTIL THE BAG IS NOT LESS THAN 12 INCHES FROM THE FLOOR AND HELD FOR NOT LESS THAN 60 SECONDS.

LOAD CAPACITY TEST FAILURE ANY SPILLAGE OF THE TEST LOAD CONSTITUTES FAILURE; IF 1 OR MORE OF THE 5 BAGS TESTED FAILS, THE LOT SHALL BE REJECTED.

SEAL CONTINUITY TEST - PLACE BAGS IN A CLEAN CONTAINER WHILE ADDING A WATER VOLUME AT 21 +/- 3 DEGREES C, WEIGHING 50 +/- 1 PERCENT OF THE LOAD CAPACITY SPECIFIED IN THE CONTRACT. GRASP OR CLAMP WITHIN 12 INCHES OF THE TOP AND RAISED BY HAND UNTIL THE BAG IS NOT LESS THAN 12 INCHES FROM THE FLOOR AND HELD FOR NOT LESS THAN 60 SECONDS.

SEAL CONTINUITY TEST FAILURE - ANY LEAKAGE OF THE TEST LOAD CONSTITUTES FAILURE; IF 1 OR MORE OF THE 5 BAGS TESTED FAILS, THE LOT SHALL BE REJECTED.

UNIT PACKAGE QUANTITY	500
UNIT QUANTITY FORM	BOX
UNIT QUANTITY PACKAGING	500 BAGS PER BOX

PACKAGING/PACKING: Five hundred (500) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

**UI: BX** (: Five hundred (500) bags shall be packaged in a box)

**NSN: 8105-01-175-5532**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	40.000 INCHES NOMINAL
FACE WIDTH	33.000 INCHES NOMINAL

ASSEMBLY METHOD	HEAT SEAL
MATERIAL	PLASTIC, POLYETHYLENE SINGLE WALL
OPENING LOCATION	ONE END
CAPACITY	33 GALLONS
LOAD CAPACITY	45 LBS
STYLE	FLAT

CERTIFICATION (PLASTIC). The contractor shall certify that the plastic used in the manufacture of the item contains a minimum of 25 % Post Consumer Material (PCM), in accordance with Code 40 of Federal Regulations Part 247. The Government reserves the right to require proof of such conformance prior to first delivery, and thereafter as may be otherwise provided for under the provisions of the contract.

PACKAGING/PACKING: Two-hundred fifty (250) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

**UI: BX** (Two-hundred fifty (250) bags shall be packaged in a box)

**NSN: 8105-01-175-5533**

ITEM NAME	BAG, PLASTIC, GENERAL PURPOSE
IAW	ASTM-D-1709, METHOD A
OVERALL FACE WIDTH	24.00 INCHES MINIMUM
OVERALL HEIGHT	24.00 INCHES MINIMUM
OVERALL PERIMETER	48.00 INCHES MINIMUM AS MEASURED AROUND THE TOP EDGE OF THE FULLY OPENED BAG
OVERALL FLAT BAG PERIMETER	24.00 INCHES
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE SINGLE WALL
ASSEMBLY METHOD	HEAT SEAL
OPENING LOCATION	ONE SIDE
DUTY RATING	LIGHT - TEST LOAD SHALL WEIGH 15 POUNDS
CAPACITY	7 GALLONS MINIMUM TO 10 GALLONS MAXIMUM
LOAD CAPACITY	15 POUNDS
DENSITY TYPE	HIGH
COLOR	NATURAL
STYLE DESIGNATOR	FLAT
SPECIAL FEATURES	DESIGNED FOR USE AS AN OFFICE TRASH BAG; MUST PASS LOAD CAPACITY AND SEAL CONTINUITY TESTS.

UNIT QUANTITY PACKAGING 1000 BAGS PER BOX

THE PLASTIC BAG SHALL COMPLY WITH THE REQUIREMENTS BELOW:

MINIMUM IMPACT RESISTANCE 150 GRAMS IAW ASTM-D-1709, METHOD A

LOAD CAPACITY TEST: PLACE OPEN BAG ON SMOOTH, HORIZONTAL SURFACE. GENTLY INSERT PAPER BACK BOOKS, EACH WEIGHING BETWEEN 0.4 AND 4.0 POUNDS IN THE BAG AND GRASP OR CLAMP WITHIN 12 INCHES OF THE TOP AND RAISED BY HAND UNTIL THE BAG IS NOT LESS THAN 12 INCHES FROM THE FLOOR AND HELD FOR NOT LESS THAN 60 SECONDS.

LOAD CAPACITY TEST FAILURE: ANY SPILLAGE OF THE TEST LOAD CONSTITUTES FAILURE; IF 1 OR MORE OF THE 5 BAGS TESTED FAILS, THE LOT SHALL BE REJECTED.

SEAL CONTINUITY TEST: PLACE BAGS IN A CLEAN CONTAINER WHILE ADDING A WATER VOLUME AT 21 +/- 3 DEGREES C, WEIGHING 50 + 1 PERCENT OF THE LOAD CAPACITY SPECIFIED IN THE CONTRACT. GRASP OR CLAMP WITHIN 12 INCHES OF THE TOP AND RAISED BY HAND UNTIL THE BAG IS NOT LESS THAN 12 INCHES FROM THE FLOOR AND HELD FOR NOT LESS THAN 60 SECONDS.

SEAL CONTINUITY TEST FAILURE: ANY LEAKAGE OF THE TEST LOAD CONSTITUTES FAILURE; IF 1 OR MORE OF THE 5 BAGS TESTED FAILS, THE LOT SHALL BE REJECTED.

PACKAGING/PACKING: One thousand (1,000) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight. Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserve/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserve/tools/cpg/index.htm)

**UI: BX** (One thousand (1,000) bags shall be packaged in a box)

**NSN: 8105-01-183-9764**

ITEM NAME	BAG, PLASTIC
TYPE	HEAVY DUTY
DUTY RATING	HEAVY, TEST LOAD SHALL WEIGH 34 KG (75 POUNDS)
COLOR	DARK BROWN OR DARK GREEN
QUANTITY PER BOX	100
FULLY OPENED BAG PERIMETER	72.00 INCHES MINIMUM (WHEN MEASURED AROUND THE TOP EDGE OF THE FULLY OPENED BAG)
FLAT BAG PERIMETER	36.00 INCHES FACE WIDTH
FLAT BAG HEIGHT	58.00 INCHES HIGH MINIMUM (WHEN MEASURED FROM THE TOP OF THE SEAL TO THE EDGE OF THE BAG)

NOTE: BAGS OTHER THAN FLAT STYLE ARE ACCEPTABLE. HOWEVER, TO COMPENSATE FOR BUNCHING AT THE SEAL, THE BAG HEIGHT SHALL BE 0.16 TIMES THE DIFFERENCE IN LENGTH BETWEEN THE ACTUAL LENGTH OF THE SEAL AND 36.00 INCHES.

IMPACT RESISTANCE	A MINIMUM OF 165 GRAMS (IAW: ASTM-D-1709, METHOD A)
TEAR RESISTANCE	A MINIMUM OF 480 GRAMS IN EACH DIRECTION (IAW: ASTM-D-1922)

SEAL CONTINUITY TEST. BAGS SHALL BE PLACED IN A CLEAN CONTAINER WITH SMOOTH SIDES WHILE ADDING THE WATER. 17 LITERS OF WATER ARE Poured INTO THE BAG. THE TEST IS TO BE PERFORMED AT 21 +/- 3 DEGREES C. THE BAG SHALL BE GRASPED OR CLAMPED WITHIN 12.00 INCHES OF THE TOP, REMOVED FROM THE CONTAINER AND RAISED BY HAND OR MECHANICAL MEANS UNTIL THE BOTTOM OF THE BAG IS NOT LESS THAN 12.00 INCHES FROM THE FLOOR. THE BAG SHALL BE HELD IN THIS POSITION FOR

60 SECONDS. ANY LEAKAGE CONSTITUTES FAILURE OF THE TEST. IF 1 OR MORE OF THE 5 BAGS SELECTED FOR THIS TEST FAIL, THE LOT SHALL BE REJECTED.

PACKAGING/PACKING: One-Hundred (100) plastic bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

**UI: BX** (One-Hundred (100) plastic bags shall be packaged in a box)

**NSN: 8105-01-183-9767**

ITEM NAME	BAG, PLASTIC, GENERAL PURPOSE, RIP RESISTANT
NOMINAL FACE WIDTH	30.0 INCHES
NOMINAL HEIGHT	36.0 INCHES
NOMINAL PERIMETER	60.0 INCHES AS MEASURED AROUND THE TOP EDGE OF THE FULLY OPENED BAG
FLAT BAG NOMINAL PERIMETER	30.0 INCHES
NOMINAL CAPACITY	7.0 GALLONS MINIMUM TO 10.0 GALLONS MAXIMUM
NOMINAL LOAD CAPACITY	15.0 POUNDS
DUTY RATING	HEAVY-TEST LOAD SHALL WEIGH 75 POUNDS (34KG)
STYLE DESIGNATOR	FLAT
OPENING LOCATION	ONE SIDE
ASSEMBLY METHOD	HEAT SEAL
COLOR	CLEAR OVERALL
MATERIAL AND LOCATION	PLASTIC RESIN
SPECIAL FEATURES	DESIGNED FOR USE AS AN OFFICE TRASH BAG; MUST PASS LOAD CAPACITY AND SEAL CONTINUITY TESTS
MINIMUM IMPACT RESISTANCE	165 GRAMS IAW ASTM-D-1709, METHOD A
MINIMUM TEAR RESISTANCE	480 GRAMS IAW ASTM-D-1922

LOAD CAPACITY TEST - PLACE OPEN BAG ON SMOOTH, HORIZONTAL SURFACE. GENTLY INSERT PAPER BACK BOOKS, EACH WEIGHING BETWEEN 0.4 AND 4.0 POUNDS IN THE BAG AND GRASP OR CLAMP WITHIN 12 INCHES OF THE TOP AND RAISED BY HAND UNTIL THE BAG IS NOT LESS THAN 12 INCHES FROM THE FLOOR AND HELD FOR NOT LESS THAN 60 SECONDS.

LOAD CAPACITY TEST FAILURE ANY SPILLAGE OF THE TEST LOAD CONSTITUTES FAILURE; IF 1 OR MORE OF THE 5 BAGS TESTED FAILS, THE LOT SHALL BE REJECTED.

SEAL CONTINUITY TEST: PLACE BAGS IN A CLEAN CONTAINER WHILE ADDING 17 LITERS OF WATER PERFORMED AT 21 +/-3 DEGREES C. GRASP OR CLAMP WITHIN 12 INCHES OF THE TOP, REMOVED FROM THE CONTAINER AND RAISED BY HAND UNTIL THE BAG IS NOT LESS THAN 12 INCHES FROM THE FLOOR AND HELD FOR NOT LESS THAN 60 SECONDS.

SEAL CONTINUITY TEST FAILURE - ANY LEAKAGE OF THE TEST LOAD CONSTITUTES FAILURE; IF 1 OR MORE OF THE 5 BAGS TESTED FAILS, THE LOT SHALL BE REJECTED.

UNIT PACKAGE                      250 BAGS PER BOX

PACKAGING/PACKING: Two hundred fifty (250) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/consERVE/tools/cpg/index.htm](http://www.epa.gov/epawaste/consERVE/tools/cpg/index.htm)

**UI: BX** (Two hundred fifty (250) bags shall be packaged in a box)

**NSN: 8105-01-183-9769**

ITEM NAME	BAG, PLASTIC
TYPE	HEAVY DUTY
DUTY RATING	HEAVY, TEST LOAD SHALL WEIGH 23 KG (51 POUNDS)
COLOR	DARK BROWN OR DARK GREEN
QUANTITY PER BOX	125
TIES	REQUIRED
OVERALL HEIGHT	39.00 INCHES
OVERALL FACE WIDTH	33.00 INCHES

FULLY OPENED BAG PERIMETER - 66.00 INCHES MINIMUM (WHEN MEASURED AROUND THE TOP EDGE OF THE FULLY OPENED BAG)

FLAT BAG PERIMETER                      33.00 INCHES FACE WIDTH  
FLAT BAG HEIGHT - 39.00 INCHES HIGH MINIMUM (WHEN MEASURED FROM THE TOP OF THE SEAL TO THE EDGE OF THE BAG)

IMPACT RESISTANCE                      A MINIMUM OF 165 GRAMS (IAW: ASTM-D-1709, METHOD A)  
TEAR RESISTANCE                          A MINIMUM OF 480 GRAMS IN EACH DIRECTION  
(IAW: ASTM-D-1922)

NOTE: BAGS OTHER THAN FLAT STYLE ARE ACCEPTABLE. HOWEVER, TO COMPENSATE FOR BUNCHING AT THE SEAL, THE BAG HEIGHT SHALL BE 0.16 TIMES THE DIFFERENCE IN LENGTH BETWEEN THE ACTUAL LENGTH OF THE SEAL AND 33.00 INCHES.

SEAL CONTINUITY TEST. BAGS SHALL BE PLACED IN A CLEAN CONTAINER WITH SMOOTH SIDES WHILE ADDING THE WATER. 17 LITERS OF WATER ARE Poured INTO THE BAG. THE TEST IS TO BE PERFORMED AT 21 +/- 3 DEGREES C. THE BAG SHALL BE GRASPED OR CLAMPED WITHIN 12.00 INCHES OF THE TOP, REMOVED FROM THE CONTAINER AND RAISED BY HAND OR MECHANICAL MEANS UNTIL THE BOTTOM OF THE BAG IS NOT LESS THAN 12.00 INCHES FROM THE FLOOR. THE BAG SHALL BE HELD IN THIS POSITION FOR 60 SECONDS. ANY LEAKAGE CONSTITUTES FAILURE OF THE TEST. IF 1 OR MORE OF THE 5 BAGS SELECTED FOR THIS TEST FAIL, THE LOT SHALL BE REJECTED.

PACKAGING/PACKING: One-Hundred twenty-five (125) plastic bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier

and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

**UI: BX** (One-Hundred twenty-five (125) plastic bags shall be packaged in a box)

**NSN: 8105-01-184-7159**

ITEM NAME	BAG, PLASTIC, GENERAL PURPOSE (RIP-RESISTANT)
OVERALL FACE WIDTH	20.00 INCHES MINIMUM
OVERALL FACE HEIGHT	21.00 INCHES MINIMUM
OVERALL PERIMETER	40.00 INCHES MINIMUM AS MEASURED AROUND THE TOP EDGE OF THE FULLY OPENED BAG
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE SINGLE WALL
ASSEMBLY METHOD	HEAT SEAL
OPENING LOCATION	ONE END
DUTY RATING	MEDIUM
LOAD CAPACITY	15 POUNDS
COLOR	CLEAR
MINIMUM IMPACT RESISTANCE	110 GRAMS IAW ASTM-D-1709, method A
MINIMUM TEAR RESISTANCE	240 GRAMS IAW ASTM-D-1922
SPECIAL FEATURES	DESIGNED FOR USE AS AN OFFICE TRASH BAG; MUST PASS LOAD CAPACITY AND SEAL CONTINUITY TESTS
UNIT QUANTITY PACKAGING	500 PLASTIC BAGS PER BOX

Seal Continuity Test: Bags shall be placed in a clean container with smooth sides while adding the water. 3.5 liters of water are poured into the bag. The test is to be performed at 21 +/- 3 degrees C. The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

PACKAGING/PACKING: Five hundred (500) plastic bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

**UI: BX** (Five hundred (500) plastic bags shall be packaged in a box)

**NSN: 8105-01-195-8730**

ITEM NAME	BAG, PLASTIC
OVERALL WIDTH	24.00 INCHES

OVERALL LENGTH - 23.00 INCHES MINIMUM TO 24.00 INCHES MAXIMUM (WHEN

MEASURED FROM THE TOP OF THE SEAL TO THE EDGE OF THE FULLY OPENED BAG)

FULLY OPENED BAG PERIMETER - 48.00 INCHES MINIMUM (WHEN MEASURED AROUND THE TOP EDGE OF THE FULLY OPENED BAG)

LOAD CAPACITY	15 POUNDS
MATERIAL AND LOCATION	PLASTIC RESIN, POLYETHYLENE SINGLE WALL
COLOR	CLEAR
DUTY RATING	MEDIUM
ASSEMBLY METHOD	HEAT SEAL
OPENING LOCATION	ONE END
STYLE DESIGNATOR	FLAT (OTHER STYLES ACCEPTABLE)
IMPACT RESISTANCE TEST	110 GRAMS MINIMUM IAW ASTM-D-1709, METHOD A
TEAR RESISTANCE TEST	240 GRAMS MINIMUM IAW ASTM-D-1922
UNIT PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	250 BAGS PER BOX

Seal Continuity Test. Bags shall be placed in a clean container with smooth sides while adding the water. 17 liters of water are poured into the bag. The test is to be performed at 21 +/- 3 degrees C. The bag shall be grasped or clamped within 12.00 inches of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 12.00 inches from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

PACKAGING/PACKING: Two hundred fifty (250) plastic bags shall be packaged in accordance with normal commercial practice to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

**UI: BX** (Two hundred fifty (250) plastic bags shall be packaged in a box)

**NSN: 8105-01-221-3234**

ITEM NAME	BAG, PLASTIC, GENERAL PURPOSE (RIP-RESISTANT)
MINIMUM FACE WIDTH	24.00 INCHES
MINIMUM FACE HEIGHT	33.00 INCHES
MINIMUM PERIMETER	48.00 INCHES WHEN MEASURED AROUND TOP EDGE OF FULLY OPENED BAG
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE SINGLE WALL
ASSEMBLY METHOD	HEAT SEAL
OPENING LOCATION	ONE SIDE
DUTY RATING	LIGHT
LOAD CAPACITY	15 POUNDS
DENSITY TYPE	HIGH
COLOR	NATURAL
MINIMUM IMPACT RESISTANCE	55 GRAMS IAW ASTM-D-1709, method A
STYLE DESIGNATOR	FLAT
SPECIAL FEATURE	DESIGNED FOR USE AS CAN LINER FOR HOLDING OFFICE AND FOOD SERVICE TRASH; MUST PASS LOAD CAPACITY AND SEAL COMMUNITY TESTS
UNIT QUANTITY PACKAGING	1000 BAGS PER BOX

Load Capacity Test: Bags selected for the Load Capacity test shall be placed on a smooth horizontal surface and spread open as wide as possible to facilitate inserting the test load. Paperback books, each weighing between 0.4 and 4.0 pounds shall constitute the test load. The test load shall be gently placed in the bag and shall be distributed throughout the bottom portion of the bag. Stacking is not required, but bunching up of the test load shall be avoided. After adding the test load, the bag shall be grasped or clamped within 30 cm (12 inches) of the top and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for not less than 60 seconds. Any spillage of the test load constitutes failure of the test. Any tear in the bag more than 3 cm (1 inch) long constitutes failure of the test. If 1 or more of the 5 bags selected for this test fails, the lot shall be rejected.

Seal Continuity Test: Bags shall be placed in a clean container with smooth sides while adding the water. A volume of water at 21 +/- 3 degrees C., weighing 50 + 1% of the load capacity specified in the contract shall be poured into the bag. (Water at 21o C weighs 998 grams per liter.) The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fails, the lot shall be rejected.

PACKAGING/PACKING: One thousand (1000) plastic bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at: [www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

**UI: BX** (One thousand (1000) plastic bags shall be packaged in a box)

**NSN: 8105-01-221-3236**

ITEM NAME	BAG, PLASTIC, GENERAL PURPOSE
IAW	ASTM-D-1709, METHOD A
MINIMUM FACE WIDTH	33.00 INCHES
MINIMUM FACE HEIGHT	44.00 INCHES
MINIMUM PERIMETER	66.00 INCHES WHEN MEASURED AROUND TOP EDGE OF FULLY OPENED BAG
OVERALL FLAT BAG PERIMETER	33.00 INCHES
OVERALL BAG THICKNESS	0.240 INCHES
MATERIAL AND LOCATION	PLASTIC RESIN
ASSEMBLY METHOD	HEAT SEAL
OPENING LOCATION	ONE END
DUTY RATING	HEAVY
LOAD CAPACITY	75 POUNDS MAXIMUM
DENSITY TYPE	HIGH
COLOR	NATURAL
STYLE DESIGNATOR	FLAT
CLOSURE TIES	NOT INCLUDED
SPECIAL FEATURES	FOR HOLDING CAFETERIA OR MESS HALL GARBAGE;
MUST PASS LOAD CAPACITY AND SEAL CONTINUITY TESTS	

UNIT QUANTITY PACKAGING 250 BAGS PER BOX

PACKAGING/PACKING: Two-hundred fifty (250) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

**UI: BX** (Two-hundred fifty (250) bags shall be packaged in a box)

**NSN: 8105-01-221-3237**

ITEM NAME	BAG, PLASTIC, GENERAL PURPOSE
MINIMUM FACE WIDTH	40.00 INCHES
MINIMUM FACE HEIGHT	48.00 INCHES
MINIMUM PERIMETER	80.00 INCHES WHEN MEASURED AROUND TOP EDGE OF FULLY OPENED BAG
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE SINGLE WALL
ASSEMBLY METHOD	HEAT SEAL
OPENING LOCATION	ONE END
DUTY RATING	HEAVY
LOAD CAPACITY	75 POUNDS MAXIMUM
DENSITY TYPE	HIGH
COLOR	NATURAL
MINIMUM IMPACT RESISTANCE	150 GRAMS IAW ASTM-D-1709, method A
STYLE DESIGNATOR	FLAT
SPECIAL FEATURES	FOR USE AS CAN LINER FOR HOLDING OFFICE AND FOOD SERVICE TRASH; MUST PASS LOAD CAPACITY AND SEAL CONTINUITY TESTS
UNIT QUANTITY PACKAGING	250 BAGS PER BOX

THE PLASTIC BAG SHALL COMPLY WITH THE REQUIREMENTS BELOW:

Load Capacity Test: Bags selected for the Load Capacity test shall be placed on a smooth horizontal surface and spread open as wide as possible to facilitate inserting the test load. When cans constitute the test load, they shall be free from burrs or sharp edges and shall be placed in the bag by hand, 1 at a time. Cans shall weigh between 1 and 2 pounds each. The test load shall be gently placed in the bag and shall be distributed throughout the bottom portion of the bag. Stacking is not required, but bunching up of the test load shall be avoided. After adding the test load, the bag shall be grasped or clamped within 30 cm (12 inches) of the top and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for not less than 60 seconds. Any spillage of the test load constitutes failure of the test. Any tear in the bag more than 3 cm (1 inch) long constitutes failure of the test. If 1 or more of the 5 bags selected for this test fails, the lot shall be rejected.

Seal Continuity Test: Bags shall be placed in a clean container with smooth sides while adding the water. A volume of water at 21 +/- 3 degrees C., weighing 50 + 1% of the load capacity specified in the contract shall be poured into the bag. (Water at 21o C weighs 998 grams per liter.) The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fails, the lot shall be rejected.

PACKAGING/PACKING: Two hundred fifty (250) plastic bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

**UI: BX** (Two hundred fifty (250) plastic bags shall be packaged in a box)

**NSN: 8105-01-221-3238**

ITEM NAME	BAG, PLASTIC, GENERAL PURPOSE
MINIMUM FACE WIDTH	37.00 INCHES
MINIMUM FACE HEIGHT	45.00 INCHES
MINIMUM PERIMETER	74.00 INCHES WHEN MEASURED AROUND TOP EDGE OF FULLY OPENED BAG
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE SINGLE WALL
ASSEMBLY METHOD	HEAT SEAL
OPENING LOCATION	ONE END
DUTY RATING	HEAVY - DUTY
LOAD CAPACITY	75 POUNDS
DENSITY TYPE	HIGH
COLOR	NATURAL
MINIMUM IMPACT RESISTANCE	150 GRAMS IAW ASTM-D-1709, METHOD A
STYLE DESIGNATOR	FLAT

SPECIAL FEATURES - USAGE DESIGN FOR USE AS CAN LINER FOR HOLDING OFFICE AND FOOD SERVICE TRASH; MUST PASS LOAD CAPACITY AND SEAL CONTINUITY TESTS

UNIT QUANTITY PACKAGING 200 PLASTIC BAGS PER BOX

THE PLASTIC BAG SHALL COMPLY WITH THE REQUIREMENTS BELOW:

Load Capacity Test: Bags selected for the Load Capacity test shall be placed on a smooth horizontal surface and spread open as wide as possible to facilitate inserting the test load. When cans constitute the test load, they shall be free from burrs or sharp edges and shall be placed in the bag by hand, 1 at a time. Cans shall weigh between 1 and 2 pounds each. The test load shall be gently placed in the bag and shall be distributed throughout the bottom portion of the bag. Stacking is not required, but bunching up of the test load shall be avoided. After adding the test load, the bag shall be grasped or clamped within 30 cm (12 inches) of the top and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for not less than 60 seconds. Any spillage of the test load constitutes failure of the test. Any tear in the bag more than 3 cm (1 inch) long constitutes failure of the test. If 1 or more of the 5 bags selected for this test fails, the lot shall be rejected.

Seal Continuity Test: Bags shall be placed in a clean container with smooth sides while adding the water. A volume of water at 21 +/- 3 degrees C weighing 50 + 1% of the load capacity specified in the contract shall be poured into the bag. (Water at 21o C weighs 998 grams per liter.) The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fails, the lot shall be rejected.

PACKAGING/PACKING: Two hundred (200) plastic bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at: [www.epa.gov/epawaste/conservation/cpg/index.htm](http://www.epa.gov/epawaste/conservation/cpg/index.htm)

**UI: BX** (Two hundred (200) plastic bags shall be packaged in a box)

**NSN: 8105-01-221-3239**

ITEM NAME	BAG, PLASTIC, GENERAL PURPOSE
MINIMUM FACE WIDTH	36.00 INCHES
MINIMUM FACE HEIGHT	60.00 INCHES
MINIMUM PERIMETER	72.00 INCHES WHEN MEASURED AROUND TOP EDGE OF FULLY OPENED BAG
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE SINGLE WALL
ASSEMBLY METHOD	HEAT SEAL
OPENING LOCATION	ONE END
DUTY RATING	HEAVY
LOAD CAPACITY	75 POUNDS
DENSITY TYPE	HIGH
COLOR	NATURAL
MINIMUM IMPACT RESISTANCE	150 GRAMS IAW ASTM-D-1709, method A
STYLE DESIGNATOR	FLAT
SPECIAL FEATURES	DESIGN FOR USE AS CAN LINER FOR HOLDING OFFICE AND FOOD SERVICE TRASH; MUST PASS LOAD CAPACITY AND SEAL CONTINUITY TESTS
LOAD CAPACITY	75 POUNDS
UNIT QUANTITY PACKAGING	200 PLASTIC BAGS PER BOX

THE PLASTIC BAG SHALL COMPLY WITH THE REQUIREMENTS BELOW:

Load Capacity Test: Bags selected for the Load Capacity test shall be placed on a smooth horizontal surface and spread open as wide as possible to facilitate inserting the test load. When cans constitute the test load, they shall be free from burrs or sharp edges and shall be placed in the bag by hand, 1 at a time. Cans shall weigh between 1 and 2 pounds each. The test load shall be gently placed in the bag and shall be distributed throughout the bottom portion of the bag. Stacking is not required, but bunching up of the test load shall be avoided. After adding the test load, the bag shall be grasped or clamped within 30 cm (12 inches) of the top and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for not less than 60 seconds. Any spillage of the test load constitutes failure of the test. Any tear in the bag more than 3 cm (1 inch) long constitutes failure of the test. If 1 or more of the 5 bags selected for this test fails, the lot shall be rejected.

Seal Continuity Test: Bags shall be placed in a clean container with smooth sides while adding the water. A volume of water at 21 +/- 3 degrees C weighing 50 + 1% of the load capacity specified in the contract shall be poured into the bag. (Water at 21 degrees C weighs 998 grams per liter.) The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fails, the lot shall be rejected.

PACKAGING/PACKING: Two hundred (200) plastic bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:  
[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

**UI: BX** (Two hundred (200) plastic bags shall be packaged in a box)

**NSN: 8105-01-284-2923**

ITEM NAME	BAG, WASTE RECEPTACLE, PAPER
OVERALL HEIGHT	19.00 INCHES NOMINAL
FACE WIDTH	12.00 INCHES NOMINAL
BOTTOM WIDTH	9.00 INCHES NOMINAL (SHALL BE FLAT)
ASSEMBLY METHOD	GLUED
MATERIAL AND LOCATION	PAPER, KRAFT, SINGLE WALL.
COLOR	NATURAL BROWN
STYLE DESIGNATOR	SELF OPENING / AUTOMATIC
LOAD CAPACITY	12 POUNDS
CAPACITY	7 GALLON
OPENING LOCATION	ONE END (TOP)
SPECIAL FEATURES	BAG IS DESIGNED AS A LINER FOR BASKET, WASTE PAPER, NSN's 7520-00-281-5911, & 7520-00-285-5416.

LOAD CAPACITY TEST. A group of full metal food cans weighing 455-910 grams (1.0 - 2.0 pounds) each whose total weight equals the load capacity specified in the contract or order shall constitute the test load. Each sample bag shall be completely immersed in tap water at 21 +/- 3 degrees C for at least 1 hr, before adding the test load. Remove each sample bag from the water, immediately open it, and gently place the test load inside. Within 2 minutes after removing the bag from the water, grasp or clamp the bag containing the test load within 30 cm (12") from the top and raise vertically at least 15 cm (6"). Hold the bag and test load in this position for not less than 60 seconds. Any spillage of the test load constitutes failure of this test.

PACKAGING/PACKING: Two-Hundred (200) bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight

**POSTCONSUMER RECOVERED MATERIAL FOR BROWN PAPERS AND BAGS:**

Brown papers include wrapping papers and bags.

(Brown Papers): The contractor shall certify that the product offered shall include a range of 5 - 20 % postconsumer recovered material, including a minimum range of 5 - 40 % Recovered fiber in accordance with EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

**UI: BE** (Two-Hundred (200) bags shall be packaged per bale)

**NSN: 8105-01-284-2924**

ITEM NAME	BAG, WASTE RECEPTACLE
OVERALL HEIGHT	36.000 INCHES NOMINAL
FACE WIDTH	18.000 INCHES NOMINAL
BOTTOM WIDTH	12.000 INCHES NOMINAL
ASSEMBLY METHOD	GLUED
MATERIAL AND LOCATION	PAPER, KRAFT, WAXED SINGLE WALL OR PAPER, KRAFT, WET STRENGTH SINGLE WALL
OPENING LOCATION	ONE END
LOAD CAPACITY	50 POUNDS

PACKAGING/PACKING: Fifty (50) bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Brown papers include wrapping papers and bags.

(Brown Papers): The contractor shall certify that the product offered shall include a range of 5 - 20 % postconsumer recovered material, including a minimum range of 5 - 40 % Recovered fiber in accordance with EPA Comprehensive Procurement Guidelines, which may be found at: [www.epa.gov/epawaste/conservation/tools/cpg/index.htm](http://www.epa.gov/epawaste/conservation/tools/cpg/index.htm)

**UI: BE** (Fifty (50) bags shall be packaged per bale)

**NSN: 8105-01-386-2289**

ITEM NAME	BAG, PLASTIC
OVERALL FACE HEIGHT	24.000 INCHES
OVERALL FACE WIDTH	24.000 INCHES
OVERALL MATERIAL THICKNESS	0.0001 INCHES
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, FIRST WALL
DUTY RATING	MEDIUM
LOAD CAPACITY	10 GALLON
SPECIAL FEATURES	100 PERCENT RECYCLED LOW DENSITY OR LOW LINEAR DENSITY POLYETHYLENE (30 PERCENT PCRM); ALL TUBULAR CONSTRUCTION WITH NO SIDE SEALS OR SEAMS STAR BOTTOM SEAL OR GUSSET TEE
UNIT QUANTITY PACKAGING	250 PLASTIC BAGS PER BOX

PACKAGING/PACKING: Two hundred fifty (250) plastic bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

**UI: BX** (Two hundred fifty (250) plastic bags shall be packaged in a box)



THICKNESS: 1.5mil  
DUTY: Extra Heavy Duty - Loads up to 75-lbs  
COLOR: Brown/Black

SPECIAL FEATURES: Bags are puncture and tear resistant, Linear Low Density made of 100% recycled resins with a minimum of 30% post-consumer material.

PACKAGING/PACKING: A unit pack contains 100 Bags. Each unit pack (100 Bags) shall be packaged in accordance with normal commercial practice to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (one hundred (100) bags in a box)

**NSN: 8105-01-386-2362**

ITEM NAME	BAG, PLASTIC
MINIMUM WIDTH	43.000 INCHES
MINIMUM HEIGHT	49.000 INCHES

MINIMUM BAG THICKNESS AND LOCATION - 0.0001 INCHES, FIRST WALL  
MATERIALPOLYETHYLENE

DUTY RATING	HEAVY
CAPACITY	56 GALLON

SPECIAL FEATURES - 100 PERCENT RECYCLED DOW DENSITY OR LOW LINEAR DENSITY POLYETHYLENE (30 PERCENT PCRM); ALL TUBULAR CONSTRUCTION WITH NO SIDE SEALS OR SEAMS STAR BOTTOM SEAL OR GUSSETED

UNIT QUANTITY PACKAGING                      100 PLASTIC BAGS PER BOX

PACKAGING/PACKING: One hundred (100) plastic bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (One hundred (100) PLASTIC BAGS PER BOX)

**NSN: 8105-01-386-2399**

BAG, PLASTIC: In accordance with Envision part # TRC3860 or equal.

SIZE: 38" x 60"  
CAPACITY: 60 GALLON

Certification (plastic). The contractor shall certify that the plastic used in the manufacture of the item contains a minimum of 25% Post Consumer Material (PCM), in accordance with Code 40 of Federal Regulations Part 247. The Government reserves the right to require proof of such conformance prior to first delivery, and thereafter as may be otherwise provided for under the provisions of the contract.

PACKAGING/PACKING: A unit pack contains 100 Bags. Each unit pack (100 Bags) shall be packaged in accordance with normal commercial practice to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and

storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (one hundred (100) bags in a box)

**NSN: 8105-01-386-2410**

BAG, PLASTIC: In accordance with Envision part # TRC3658 or equal.

SIZE: 36" x 58"

CAPACITY: 60 GALLON

Certification (plastic). The contractor shall certify that the plastic used in the manufacture of the item contains a minimum of 25% Post Consumer Material (PCM), in accordance with Code 40 of Federal Regulations Part 247. The Government reserves the right to require proof of such conformance prior to first delivery, and thereafter as may be otherwise provided for under the provisions of the contract.

PACKAGING/PACKING: A unit pack contains 100 Bags. Each unit pack (100 Bags) shall be packaged in accordance with normal commercial practice to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (one hundred (100) bags in a box)

**NSN: 8105-01-386-2428**

BAG, PLASTIC: In accordance with Envision part # TRC5051 or equal.

SIZE: 50 x 51"

CAPACITY: 65 GALLONS

Certification (plastic). The contractor shall certify that the plastic used in the manufacture of the item contains a minimum of 25% Post Consumer Material (PCM), in accordance with Code 40 of Federal Regulations Part 247. The Government reserves the right to require proof of such conformance prior to first delivery, and thereafter as may be otherwise provided for under the provisions of the contract.

PACKAGING/PACKING: A unit pack contains 100 Bags. Each unit pack (100 Bags) shall be packaged in accordance with normal commercial practice to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (one hundred (100) bags in a box)

**NSN: 8105-01-399-4791**

ITEM NAME

BAG, SHREDDER

OVERALL LENGTH	30.000 INCHES
OVERALL WIDTH	29.000 INCHES
OVERALL THICKNESS	0.0008 INCHES
CAPACITY RATING	20 GALLONS
RATING TYPE	HEAVY DUTY
DENSITY TYPE	LOW
MELTING POINT	240 DEG FAHRENHEIT TO 265 DEG FAHRENHEIT
COLOR	CLEAR, NEUTRAL
SPECIAL FEATURE	ODORLESS; INCLUDES TIES
USAGE FORM	ROLL
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	2 ROLLS PER BOX

PACKAGING/PACKING: Two (2) rolls shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (Two (2) rolls shall be packaged in a box)

**NSN: 8105-01-399-4792**

ITEM NAME	BAG, SHREDDER
OVERALL LENGTH	31.000 INCHES
OVERALL WIDTH	36.000 INCHES
OVERALL THICKNESS	0.0008 INCHES
CAPACITY RATING	26 GALLONS
RATING TYPE	HEAVY DUTY
DENSITY TYPE	LOW
MELTING POINT	240 DEG FAHRENHEIT TO 265 DEG FAHRENHEIT
COLOR	CLEAR, NEUTRAL
SPECIAL FEATURE	ODORLESS; INCLUDES TIES
USAGE FORM	ROLL
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	1 ROLL OF 50 BAGS PER BOX

PACKAGING/PACKING: One (1) roll shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (One (1) roll shall be packaged in a box)

**NSN: 8105-01-399-4793**

ITEM NAME	BAG, SHREDDER
OVERALL LENGTH	36.000 INCHES
OVERALL WIDTH	39.000 INCHES
OVERALL THICKNESS	0.0008 INCHES

CAPACITY RATING	39 GALLONS
RATING TYPE	HEAVY DUTY
DENSITY TYPE	LOW
MELTING POINT	240 DEG FAHRENHEIT TO 265 DEG FAHRENHEIT
COLOR	CLEAR, NEUTRAL
SPECIAL FEATURE	ODORLESS; INCLUDES TIES
USAGE FORM	ROLL
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	1 ROLL OF 50 BAGS PER BOX

PACKAGING/PACKING: One (1) roll shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (One (1) roll shall be packaged in a box)

**NSN: 8105-01-517-1344**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	48.000 INCHES
FACE WIDTH	40.000 INCHES
CAPACITY RATING	40 - 45 GALLONS
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
MATERIAL TRANSPARENCY	TRANSLUCENT
OPENING LOCATION	ONE END
RATING TYPE	HEAVY DUTY
DENSITY TYPE	HIGH
COLOR	CLEAR
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	250 BAGS PER BOX

PACKAGING/PACKING: Two-hundred fifty (250) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserve/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserve/tools/cpg/index.htm)

UI: BX (Two-hundred fifty (250) bags shall be packaged in a box)

**NSN: 8105-01-517-1345**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	48.000 INCHES
FACE WIDTH	40.000 INCHES
CAPACITY RATING	40 - 45 GALLONS
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
MATERIAL TRANSPARENCY	TRANSLUCENT

OPENING LOCATION	ONE END
RATING TYPE	MEDIUM DUTY
DENSITY TYPE	HIGH
COLOR	CLEAR
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	250 BAGS PER BOX

PACKAGING/PACKING: Two-hundred fifty (250) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

UI: BX (Two-hundred fifty (250) bags shall be packaged in a box)

**NSN: 8105-01-517-1347**

NAME	BAG, PLASTIC
OVERALL FACE WIDTH	38.00 INCHES
OVERALL HEIGHT	60.00 INCHES
COLOR	CLEAR
MATERIAL TRANSPARENCY	TRANSLUCENT
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE; SINGLE WALL
OPENING LOCATION	ONE END
LOAD CAPACITY TYPE	GENERAL PURPOSE LINE
LOAD CAPACITY	55 GALLONS MINIMUM TO 60 GALLONS MAXIMUM
STYLE DESIGNATOR	FLAT
UNIT QUANTITY PACKAGING	200 BAGS PER BOX

PACKAGING/PACKING: Two hundred (200) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

UI: BX (Two hundred (200) bags shall be packaged in a box)

**NSN: 8105-01-517-1351**

ITEM NAME	BAG, PLASTIC
OVERALL FACE WIDTH	24.00 INCHES
OVERALL HEIGHT	24.00 INCHES
MATERIAL TRANSPARENCY	TRANSLUCENT
COLOR	CLEAR
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE SINGLE WALL
OPENING LOCATION	ONE END
LOAD CAPACITY	7 GALLONS MINIMUM TO 10 GALLONS MAXIMUM
DENSITY TYPE	LINEAR LOW
DUTY RATING	LIGHT
STYLE DESIGNATOR	FLAT
ENVIRONMENTAL PROTECTION	HIGHLY PUNCTURE AND TEAR RESISTANT

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.ht](http://www.epa.gov/epawaste/conserva/tools/cpg/index.ht)

UI: BX UI: BX (Two-hundred fifty (250) bags shall be packaged in a box)

**NSN: 8105-01-517-1352**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	36.000 INCHES
FACE WIDTH	30.000 INCHES
CAPACITY RATING	30 GALLONS
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
MATERIAL TRANSPARENCY	TRANSLUCENT
OPENING LOCATION	ONE END
RATING TYPE	MEDIUM DUTY
DENSITY TYPE	LOW
STYLE DESIGNATOR	FLAT
COLOR	CLEAR
SPECIAL FEATURE	HIGHLY PUNCTURE AND TEAR RESISTANT
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	250 BAGS PER BOX

PACKAGING/PACKING: Two-hundred fifty (250) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

UI: BX (Two-hundred fifty (250) bags shall be packaged in a box)

**NSN: 8105-01-517-1353**

ITEM NAME	BAG, PLASTIC
OVERALL FACE WIDTH	33.000 INCHES
OVERALL HEIGHT	39.000 INCHES
COLOR	CLEAR
DUTY RATING	HEAVY
MATERIAL TRANSPARENCY	TRANSLUCENT
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE; SINGLE WALL
OPENING LOCATION	ONE END
LOAD CAPACITY	33 GALLONS
DENSITY TYPE	LINEAR LOW
STYLE DESIGNATOR	FLAT
ENVIRONMENTAL PROTECTION	HIGHLY PUNCTURE AND TEAR RESISTANT

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

UI: BX (Two-hundred fifty (250) bags shall be packaged in a box)

**NSN: 8105-01-517-1355**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	39.000 INCHES
FACE WIDTH	33.000 INCHES
CAPACITY RATING	33 GALLONS
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
MATERIAL TRANSPARENCY	TRANSLUCENT
OPENING LOCATION	ONE END
RATING TYPE	EXTRA HEAVY DUTY
DENSITY TYPE	LOW
STYLE DESIGNATOR	FLAT
COLOR	CLEAR
SPECIAL FEATURE	HIGHLY PUNCTURE AND TEAR RESISTANT
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	100 BAGS PER BOX

PACKAGING/PACKING: One-hundred (100) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

UI: BX (one hundred (100) bags in a box)

**NSN: 8105-01-517-1358**

ITEM NAME	BAG, PLASTIC
OVERALL FACE WIDTH	36.00 INCHES
OVERALL HEIGHT	58.00 INCHES
COLOR	CLEAR
DUTY RATING	HEAVY
LOAD CAPACITY	55 GALLONS
MATERIAL TRANSPARENCY	OPAQUE
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
PERFORATION FEATURE	INCLUDED
OPENING LOCATION	ONE END
APPLICATION	TRASH BAG
CORE TYPE	CORELESS
DENSITY TYPE	LOW
STYLE DESIGNATOR	A4 FLAT
MINIMUM IMPACT RESISTANCE	165 GRAMS IAW ASTM-D-1709, method A
MINIMUM TEAR RESISTANCE	480 GRAMS IAW ASTM-D-1922
ENVIRONMENTAL PROTECTION	TEAR RESISTANT
UNIT QUANTITY FORM	10 BAGS PER ROLL
UNIT QUANTITY PACKAGING	100 BAGS PER BOX

Seal Continuity Test. Bags shall be placed in a clean container with smooth sides while adding the water. 5.5 liters of water are poured into the bag. The test is to be performed at 21 +/- 3 degrees C. The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

Load Capacity Test. Bags selected for the Load Capacity test shall be placed on a smooth horizontal surface and spread open as wide as possible to facilitate inserting the test load. Full metal food cans weighing between 1 and 2 pounds shall be used for the test load. They shall be free from burrs or sharp edges. Cans shall be gently placed in the bag, 1 at a time, by hand, and shall be distributed throughout the bottom portion of the bag. Stacking is not required, but bunching up of the test load shall be avoided. After adding the test load of 75 pounds, the bag shall be grasped or clamped within 30 cm (12 inches) of the top and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for not less than 60 seconds. Any spillage of the test load constitutes failure of the test. Any tear in the bag more than 3 cm (1 inch) long constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

PACKAGING/PACKING: Ten (10) rolls (totaling 100) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

UI: BX (Ten (10) rolls (totaling 100) bags shall be packaged in a box)

**NSN: 8105-01-517-1360**

ITEM NAME	BAG, PLASTIC
OVERALL FACE WIDTH	36.00 INCHES
OVERALL HEIGHT	58.00 INCHES
COLOR	GRAY
DUTY RATING	HEAVY
MATERIAL TRANSPARENCY	OPAQUE
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
PERFORATION FEATURE	INCLUDED
OPENING LOCATION	ONE END
LOAD CAPACITY	60 GALLONS
APPLICATION	TRASH BAG
CORE TYPE	CORELESS
DENSITY	LOW
STYLE DESIGNATOR	A4 FLAT
MINIMUM IMPACT RESISTANCE	165 GRAMS IAW ASTM-D-1709, method A
MINIMUM TEAR RESISTANCE	480 GRAMS IAW ASTM-D-1922
UNIT QUANTITY FORM	10 BAGS PER ROLL
UNIT QUANTITY PACKAGING	100 BAGS PER BOX

Seal Continuity Test. Bags shall be placed in a clean container with smooth sides while adding the water. 5.5 liters of water are poured into the bag. The test is to be performed at 21 +/- 3 degrees C. The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

Load Capacity Test. Bags selected for the Load Capacity test shall be placed on a smooth horizontal surface and spread open as wide as possible to facilitate inserting the test load. Full metal food cans weighing between 1 and 2 pounds shall be used for the test load. They shall be free from burrs or sharp edges. Cans shall be gently placed in the bag, 1 at a time, by hand, and shall be distributed throughout the bottom portion of the bag. Stacking is not required, but bunching up of the test load shall be avoided. After adding the test load of 75 pounds, the bag shall be grasped or clamped within 30 cm (12 inches) of the top and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for not less than 60 seconds. Any spillage of the test load constitutes failure of the test. Any tear in the bag more than 3 cm (1 inch) long constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

PACKAGING/PACKING: Ten (10) rolls (totaling 100) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

UI: BX (Ten (10) rolls (totaling 100) bags shall be packaged in a box)

**NSN: 8105-01-517-1362**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	46.000 INCHES
FACE WIDTH	40.000 INCHES
CAPACITY RATING	40 GALLONS
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
MATERIAL TRANSPARENCY	TRANSLUCENT
OPENING LOCATION	ONE END
RATING TYPE	HEAVY DUTY
DENSITY TYPE	LOW
STYLE DESIGNATOR	FLAT
COLOR	CLEAR
SPECIAL FEATURE	HIGHLY PUNCTURE AND TEAR RESISTANT
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	125 BAGS PER BOX

PACKAGING/PACKING: One-hundred twenty-five (125) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (One-hundred twenty-five (125) bags shall be packaged in a box)

**NSN: 8105-01-517-1363**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	24.000 INCHES
FACE WIDTH	24.000 INCHES
CAPACITY RATING	10 GALLONS
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
MATERIAL TRANSPARENCY	TRANSLUCENT
OPENING LOCATION	ONE END
RATING TYPE	LIGHT DUTY
DENSITY TYPE	HIGH
STYLE DESIGNATOR	FLAT
COLOR	CLEAR
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	1000 BAGS PER BOX

PACKAGING/PACKING: One-thousand (1000) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

UI: BX (One-thousand (1000) bags shall be packaged in a box)

**NSN: 8105-01-517-1364**

ITEM NAME	BAG, PLASTIC
OVERALL FACE WIDTH	38.00 INCHES
OVERALL HEIGHT	58.00 INCHES
COLOR	CLEAR
DUTY RATING	EXTRA HEAVY
MATERIAL TRANSPARENCY	OPAQUE
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
PERFORATION FEATURE	INCLUDED
OPENING LOCATION	ONE END
LOAD CAPACITY	60 GALLONS
APPLICATION	TRASH BAG
CORE TYPE	CORELESS
DENSITY	LOW
STYLE DESIGNATOR	FLAT
IMPACT RESISTANCE TEST	165 GRAMS IAW ASTM-D-1709, method A
TEAR RESISTANCE TEST	480 GRAMS IAW ASTM-D-1922
UNIT QUANTITY FORM	10 BAGS PER ROLL
UNIT QUANTITY PACKAGING	100 BAGS PER BOX

Seal Continuity Test. Bags shall be placed in a clean container with smooth sides while adding the water. 5.5 liters of water are poured into the bag. The test is to be performed at 21 +/- 3 degrees C. The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

Load Capacity Test. Bags selected for the Load Capacity test shall be placed on a smooth horizontal surface and spread open as wide as possible to facilitate inserting the test load. Full metal food cans weighing between 1 and 2 pounds shall be used for the test load. They shall be free from burrs or sharp edges. Cans shall be gently placed in the bag, 1 at a time, by hand, and shall be distributed throughout the bottom portion of the bag. Stacking is not required, but bunching up of the test load shall be avoided. After adding the test load of 75 pounds, the bag shall be grasped or clamped within 30 cm (12 inches) of the top and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for not less than 60 seconds. Any spillage of the test load constitutes failure of the test. Any tear in the bag more than 3 cm (1 inch) long constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

PACKAGING/PACKING: Ten (10) rolls (totaling 100) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (Ten (10) rolls (totaling 100) bags shall be packaged in a box)

**NSN: 8105-01-517-1365**

ITEM NAME	BAG, PLASTIC
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OVERALL HEIGHT	33.000 INCHES
FACE WIDTH	24.000 INCHES
CAPACITY RATING	16 GALLONS
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
MATERIAL TRANSPARENCY	TRANSLUCENT
OPENING LOCATION	ONE END
RATING TYPE	LIGHT DUTY
DENSITY TYPE	HIGH
STYLE DESIGNATOR	FLAT
COLOR	CLEAR
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	1000 BAGS PER BOX

PACKAGING/PACKING: One-thousand (1000) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conservation/cpg/index.htm](http://www.epa.gov/epawaste/conservation/cpg/index.htm)

**UI: BX** (One-thousand (1000) bags shall be packaged in a box)

**8105-01-517-1367**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	60.000 INCHES
FACE WIDTH	38.000 INCHES
CAPACITY RATING	60 GALLONS
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
MATERIAL TRANSPARENCY	TRANSLUCENT
OPENING LOCATION	ONE END
RATING TYPE	MEDIUM DUTY
DENSITY TYPE	LOW
STYLE DESIGNATOR	FLAT
COLOR	CLEAR
SPECIAL FEATURE	HIGHLY PUNCTURE AND TEAR RESISTANT
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	100 BAGS PER BOX

PACKAGING/PACKING: One-hundred (100) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/consERVE/tools/cpg/index.htm](http://www.epa.gov/epawaste/consERVE/tools/cpg/index.htm)

UI: BX (one hundred (100) bags in a box)

**NSN: 8105-01-517-1369** UI: BX

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	22.000 INCHES
FACE WIDTH	20.000 INCHES
CAPACITY RATING	10 GALLONS
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
MATERIAL TRANSPARENCY	TRANSLUCENT
OPENING LOCATION	ONE END
RATING TYPE	LIGHT DUTY
DENSITY TYPE	HIGH
STYLE DESIGNATOR	FLAT
COLOR	CLEAR
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	2,000 BAGS PER BOX

PACKAGING/PACKING: Two-thousand (2,000) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/consERVE/tools/cpg/index.htm](http://www.epa.gov/epawaste/consERVE/tools/cpg/index.htm)

UI: BX (Two-thousand (2,000) bags shall be packaged in a box)

**NSN: 8105-01-517-1370**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	24.000 INCHES
FACE WIDTH	24.000 INCHES
CAPACITY RATING	10 GALLONS
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
MATERIAL TRANSPARENCY	TRANSLUCENT
OPENING LOCATION	ONE END
RATING TYPE	LIGHT DUTY
DENSITY TYPE	HIGH
STYLE DESIGNATOR	FLAT
PERFORATION FEATURE	INCLUDED
SPECIAL FEATURE	SOFT REFUSE
COLOR	CLEAR
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	1,000 BAGS PER BOX

PACKAGING/PACKING: One-thousand (1,000) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide

product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

UI: BX (One-thousand (1000) bags shall be packaged in a box)

**NSN: 8105-01-517-1371**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	60.000 INCHES
FACE WIDTH	38.000 INCHES
LOAD CAPACITY	60 GALLONS
MATERIAL	PLASTIC, POLYETHYLENE SINGLE WALL
MATERIAL TRANSPARENCY	TRANSLUCENT
OPENING LOCATION	ONE END
RATING TYPE	HEAVY DUTY
DENSITY TYPE	LOW
COLOR	CLEAR
STYLE DESIGNATOR	FLAT
SPECIAL FEATURE	HIGHLY PUNCTURE AND TEAR RESISTANT
UNIT PACKAGING QUANTITY	100 BAGS PER BOX

PACKAGING/PACKING: One-hundred (100) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

UI: BX (one hundred (100) bags in a box)

**NSN: 8105-01-517-1373**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	60.000 INCHES
FACE WIDTH	38.000 INCHES
CAPACITY RATING	60 GALLONS
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
MATERIAL TRANSPARENCY	TRANSLUCENT
OPENING LOCATION	ONE END
RATING TYPE	EXTRA HEAVY DUTY
DENSITY TYPE	LOW

STYLE DESIGNATOR	FLAT
COLOR	CLEAR
SPECIAL FEATURE	HIGHLY PUNCTURE AND TEAR RESISTANT
PACKAGING FORM	BOX
UNIT PACKAGING QUANTITY	100 BAGS PER BOX

PACKAGING/PACKING: One-hundred (100) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/consERVE/tools/cpg/index.htm](http://www.epa.gov/epawaste/consERVE/tools/cpg/index.htm)

UI: BX (one hundred (100) bags in a box)

**NSN: 8105-01-517-1377**

ITEM NAME	BAG, PLASTIC
OVERALL FACE WIDTH	33.00 INCHES
OVERALL HEIGHT	39.00 INCHES
MATERIAL TRANSPARENCY	OPAQUE
MATERIAL AND LOCATION	PLASTIC, POLYETHYLENE, SINGLE WALL
COLOR	GRAY
PERFORATION FEATURE	INCLUDED
OPENING LOCATION	ONE END
LOAD CAPACITY	33 GALLONS
APPLICATION	TRASH BAG
CORE TYPE	CORELESS ROLL
DENSITY	LOW
DUTY RATING	HEAVY
STYLE DESIGNATOR	A4 FLAT
MINIMUM IMPACT RESISTANCE	165 GRAMS IAW ASTM-D-1709, method A
MINIMUM TEAR RESISTANCE	480 GRAMS IAW ASTM-D-1922
UNIT QUANTITY FORM	25 BAGS PER ROLL
UNIT QUANTITY PACKAGING	250 BAGS PER CASE

Seal Continuity Test. Bags shall be placed in a clean container with smooth sides while adding the water. 5.5 liters of water are poured into the bag. The test is to be performed at 21 +/- 3 degrees C. The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

Load Capacity Test. Bags selected for the Load Capacity test shall be placed on a smooth horizontal surface and spread open as wide as possible to facilitate inserting the test load. Full metal food cans weighing between 1 and 2 pounds shall be used for the test load. They shall be free from burrs or sharp edges. Cans shall be gently placed in the bag, 1 at a time, by hand, and shall be distributed throughout the bottom portion of the bag. Stacking is not required, but bunching up of the

test load shall be avoided. After adding the test load of 75 pounds, the bag shall be grasped or clamped within 30 cm (12 inches) of the top and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for not less than 60 seconds. Any spillage of the test load constitutes failure of the test. Any tear in the bag more than 3 cm (1 inch) long constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

PACKAGING/PACKING: Ten (10) rolls of plastic bags (totaling 250) shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

**UI: BX** (Ten (10) rolls of plastic bags (totaling 250) shall be packaged in a box)

**NSN: 8105-01-517-3667**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	39.000 INCHES
FACE WIDTH	33.000 INCHES
OVERALL THICKNESS	0.0013 INCHES
LOAD CAPACITY	33 GALLONS
MATERIAL	PLASTIC RESIN
OPENING LOCATION	TOP
RATING TYPE	HEAVY DUTY
COLOR	BLACK OR BROWN
STYLE DESIGNATION	FLAT
IMPACT RESISTANCE TEST	165 GRAMS IAW ASTM-D-1709, method A,
TEAR RESISTANCE TEST	480 GRAMS IAW ASTM-D-1922
SPECIAL FEATURE	CONVENIENT CARRYING HANDLE IN BACK
PACKAGING FORM	BOX
QUANTITY PER BOX	25

Seal continuity test. Bags shall be placed in a clean container with smooth sides while adding the water. 17 liters of water are poured into the bag. The test is to be performed at 21 +/- 3 degrees c. The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

Packaging/Packing: Twenty-five (25) bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (Twenty-five (25) bags shall be packaged in a box)

**NSN: 8105-01-517-3668**

ITEM NAME	BAG, PLASTIC
OVERALL FACE WIDTH	38.00 INCHES
OVERALL HEIGHT	58.00 INCHES
OVERALL THICKNESS	0.0013 INCHES
LOAD CAPACITY	60 GALLONS
COLOR	BLACK OR BROWN
MATERIAL	PLASTIC RESINS
OPENING LOCATION	TOP
APPLICATION	RETAIL PACK TRASH BAG
INCLUDES	CARRYING HANDLE IN BACK
DENSITY	LOW
DUTY RATING	EXTRA HEAVY DUTY
STYLE DESIGNATION	FLAT
MINIMUM IMPACT RESISTANCE	165 GRAMS IAW ASTM-D-1709, method A
MINIMUM TEAR RESISTANCE	480 GRAMS IAW ASTM-D-1922
SPECIAL FEATURE	PUNCTURE AND TEAR RESISTANT
UNIT QUANTITY PACKAGING	20 PER BOX

Seal Continuity Test. Bags shall be placed in a clean container with smooth sides while adding the water. 17 liters of water are poured into the bag. The test is to be performed at 21 +/- 3 degrees C. The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

PACKAGING/PACKING: Twenty (20) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserva/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserva/tools/cpg/index.htm)

UI: BX (Twenty (20) bags shall be packaged in a box)

**NSN: 8105-01-517-3669**

ITEM NAME	BAG, PLASTIC
OVERALL FACE WIDTH	40.000 INCHES
OVERALL HEIGHT	46.000 INCHES
OVERALL THICKNESS	0.0013 INCHES
LOAD CAPACITY	45 GALLONS
COLOR	BLACK OR BROWN
MATERIAL	PLASTIC RESINS
OPENING LOCATION	TOP

APPLICATION	RETAIL PACK TRASH BAG
INCLUDES	CARRYING HANDLE IN BACK
DENSITY	LOW
DUTY RATING	EXTRA HEAVY DUTY
STYLE DESIGNATION	FLAT
MINIMUM IMPACT RESISTANCE	165 GRAMS IAW ASTM-D-1709, method A
MINIMUM TEAR RESISTANCE	480 GRAMS IAW ASTM-D-1922
SPECIAL FEATURE	PUNCTURE AND TEAR RESISTANT
UNIT QUANTITY PACKAGING	15 BAGS PER BOX

Seal Continuity Test. Bags shall be placed in a clean container with smooth sides while adding the water. 17 liters of water are poured into the bag. The test is to be performed at 21 +/- 3 degrees C. The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

PACKAGING/PACKING: Fifteen (15) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conservation/tools/cpg/index.htm](http://www.epa.gov/epawaste/conservation/tools/cpg/index.htm)

UI: BX (Fifteen (15) bags shall be packaged in a box)

**NSN: 8105-01-534-6826**

ITEM NAME	BAG, TRASH, REPELLENT
OVERALL WIDTH	37.00 INCHES
OVERALL LENGTH	52.00 INCHES
OVERALL THICKNESS	2.0 MIL
COLOR	BLACK
MATERIAL	POLYETHYLENE AND FRAGRANCE OIL
TIES	REQUIRED

APPLICATION - DESIGNED FOR USE AS INSECT REPELLENT, ANTIMICROBIAL, GARBAGE BAGS. PEST GUARD BAGS REPEL INSECTS AND DISCOURAGES RODENTS.

MINIMUM IMPACT RESISTANCE	165 GRAMS IAW ASTM-D-1709, method A
MINIMUM TEAR RESISTANCE	480 GRAMS IAW ASTM-D-1922
TEST LOAD	TEST LOAD SHALL WEIGH 75 POUNDS

SPECIAL FEATURES - NONTOXIC AND SAFE FOR FOOD HANDLING APPLICATIONS WHILE HAVING ANTIBACTERIAL AND ANTIMICROBIAL BENEFITS. RECYCLED CONTENT (EPA ITEM MEETS EO 13101)

Seal Continuity Test. Bags shall be placed in a clean container with smooth sides while adding the water. 27 liters of water are poured into the bag. The test is to be performed at 21 +/- 3 degrees C. The bag shall be grasped or clamped within 30 cm (12 inches) of the top, removed from the container and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for 60 seconds. Any leakage constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

Load Capacity Test. Bags selected for the Load Capacity test shall be placed on a smooth horizontal surface and spread open as wide as possible to facilitate inserting the test load. Full metal food cans weighing between 1 and 2 pounds shall be used for the test load. They shall be free from burrs or sharp edges. Cans shall be gently placed in the bag, 1 at a time, by hand, and shall be distributed throughout the bottom portion of the bag. Stacking is not required, but bunching up of the test load shall be avoided. After adding the test load of 75 pounds, the bag shall be grasped or clamped within 30 cm (12 inches) of the top and raised by hand or mechanical means until the bottom of the bag is not less than 30 cm (12 inches) from the floor. The bag shall be held in this position for not less than 60 seconds. Any spillage of the test load constitutes failure of the test. Any tear in the bag more than 3 cm (1 inch) long constitutes failure of the test. If 1 or more of the 5 bags selected for this test fail, the lot shall be rejected.

SPECIAL MARKING: Each bag shall be permanently marked on the outside in black or white with the following legend in characters not less than 2 inches high:

INSECT REPELLENT AND SAFE FOR FOOD HANDLING

The marking shall be located so that it is clearly visible when the bag is full and closed with a twist tie.

PACKAGING/PACKING: Sixty-five (65) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/consERVE/tools/cpg/index.htm](http://www.epa.gov/epawaste/consERVE/tools/cpg/index.htm)

UI: BX (Sixty-five (65) bags shall be packaged in a box)

**NSN: 8105-01-557-4973**

ITEM NAME	BAG, PLASTIC
OVERALL WIDTH	48.00 INCHES
OVERALL LENGTH	40.00 INCHES
MATERIAL TRANSPARENCY	TRANSLUCENT
COLOR	NATURAL
CAPACITY	40 MINIMUM TO 45 GALLONS MAXIMUM
MAXIMUM LOAD CAPACITY	75.00 POUNDS
DUTY RATING	EXTRA HEAVY DUTY
MICRONS QUANTITY	16
DENSITY TYPE	HIGH
OPENING LOCATION	TOP

STYLE DESIGNATOR	FLAT
SPECIAL FEATURES	CORELESS ROLL
UNIT PACKAGING FORM	BOX
UNIT PACKAGE QUANTITY	250 BAGS PER ROLL

PACKAGING/PACKING: Two hundred (250) plastic bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (Two-hundred fifty (250) bags shall be packaged in a box)

**NSN: 8105-01-557-4976**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	51.000 INCHES
OVERALL WIDTH	39.000 INCHES
OVERALL THICKNESS	0.0080 INCHES
OVERALL CAPACITY	50 GALLONS
MATERIAL TRANSPARENCY	CLEAR
OPENING LOCATION	TOP
SPECIAL FEATURES	ODORLESS
PH SCALE	NEUTRAL
MELTING POINT	240 - 265 DEGREES F
COLOR	CLEAR
STYLE DESIGNATOR	FLAT
DUTY RATING	HEAVY
QUANTITY PER UNIT	25 BAGS PER ROLL
UNIT OF ISSUE	2 ROLLS PER BOX

PACKAGING/PACKING: Fifty (50) bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/conserves/tools/cpg/index.htm](http://www.epa.gov/epawaste/conserves/tools/cpg/index.htm)

UI: BX (Fifty (50) bags shall be packaged in a box)

**NSN: 8105-01-557-4982**

ITEM NAME	BAG, PLASTIC
OVERALL HEIGHT	51.000 INCHES
OVERALL WIDTH	49.000 INCHES

OVERALL THICKNESS	0.0080 INCHES
OVERALL CAPACITY	60 GALLONS
MATERIAL TRANSPARENCY	CLEAR
OPENING LOCATION	TOP
SPECIAL FEATURES	ODORLESS
PH SCALE	NEUTRAL
MELTING POINT	240 - 265 DEGREES FAHRENHEIT
COLOR	CLEAR
STYLE DESIGNATOR	FLAT
DUTY RATING	HEAVY
UNIT PACKAGING QUANTITY	25 BAGS PER ROLL
UNIT PACKING QUANTITY	2 ROLLS PER BOX

PACKAGING/PACKING: Fifty (50) bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/consERVE/tools/cpg/index.htm](http://www.epa.gov/epawaste/consERVE/tools/cpg/index.htm)

UI: BX (Fifty (50) bags shall be packaged in a box)

**NSN: 8105-01-560-4933**

ITEM NAME	BAG, PLASTIC DEGRADABLE
OVERALL HEIGHT	44.00 INCHES
OVERALL WIDTH	33.00 INCHES
CAPACITY	39 GALLONS
COLOR	BROWN OVERALL
DUTY	EXTRA HEAVY-DUTY
ENVIRONMENTAL	DEGRADABLE IN 12 TO 24 MONTHS, BIO-DEGRADE IN 36 MONTHS
UNIT PACKAGING QUANTITY	40 BAGS PER ROLL

PACKAGING/PACKING: Forty (40) bags shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

**SHELF LIFE:**

Type II: Extendable

Max age on Delivery: 2 Months

Shelf Life Code: 4 (12 Months Extendable Shelf Life)

Bags shall be delivered within two (2) months after the manufacture date, and have a shelf life of twelve (12) months after the manufacture date. After twelve (12) months, the Government reserves the right to extend the shelf life at its discretion.

UI: BX (Forty (40) bags shall be packaged in a box)

**NSN: 8105-01-560-4934**

ITEM NAME	BAG, PLASTIC DEGRADABLE
OVERALL WIDTH	24.00 INCHES
OVERALL LENGTH	30.00 INCHES
LOAD CAPACITY	13 GALLONS
COLOR	WHITE
MATERIAL	PLASTIC
ASSEMBLY METHOD	HEAT SEAL
OPENING	ONE END
CLOSURE FASTENING TYPE	LOOPED / TWISTED WIRE
DUTY RATING	MEDIUM
STYLE DESIGNATOR	FLAT
LINER TYPE	BIODEGRADABLE
UNIT PACKAGE QUANTITY	40 BAGS
UNIT QUANTITY PACKAGING	3 PACKAGES PER BOX

PACKAGING/PACKING: Three (3) rolls (totaling 120 bags) shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

SHELF LIFE:

ITEM: BAG, PLASTIC DEGRADABLE  
Type II: Extendable  
Age on Delivery: 2 Months  
Shelf Life Code: 4 (12 Months Extendable Shelf Life)

Bags shall be delivered within two (2) months after the manufacture date, and have a shelf life of twelve (12) months after the manufacture date. After twelve (12) months, the Government reserves the right to extend the shelf life at its discretion.

UI: BX (Three (3) rolls (totaling 120 bags) shall be packaged in a box)

**NSN: 8105-01-567-9524**

ITEM NAME	BAG, PLASTIC, DEGRADABLE
OVERALL WIDTH	36.00 INCHES
OVERALL LENGTH	58.00 INCHES
OVERALL THICKNESS	0.012 MILS
LOAD CAPACITY	55 GALLONS
COLOR	NATURAL OVERALL
MATERIAL	PLASTIC RESIN OVERALL
OPENING LOCATION	ONE END
STYLE DESIGNATOR	FLAT
DUTY RATING	HEAVY
ASSEMBLY METHOD	HEAT SEAL
CLOSURE TIES	NOT INCLUDED
STRENGTH	HIGH DENSITY
UNIT QUANTITY FORM	BOX
UNIT PACKAGING QUANTITY	100 BAGS PER BOX

DEGRADABLE - IN LANDFILL CONDITIONS 12 MONTHS MINIMUM - 24 MONTHS  
MAXIMUM SHELF LIFE 16 MONTHS - DATE OF MANUFACTURE WILL BE PRINTED OR  
STAMPED ON THE OUTSIDE OF THE FIBERBOARD BOX

PACKAGING/PACKING: One hundred (100) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (one hundred (100) bags in a box)

**NSN: 8105-01-567-9526**

ITEM NAME:	BAG, PLASTIC, DEGRADABLE
NOMINAL WIDTH	33.000 INCHES
NOMINAL LENGTH	39.000 INCHES
NOMINAL OVERALL THICKNESS	0.0120 INCHES
COLOR	NATURAL OVERALL
MATERIAL	PLASTIC OVERALL
ASSEMBLY METHOD	HEAT SEAL
MINIMUM CAPACITY	33 GALLONS
DUTY RATING	HEAVY
DUTY RATING WEIGHT	75 POUNDS MAXIMUM TEST LOAD
UNIT QUANTITY FORM	BOX
UNIT QUANTITY PACKAGING	100 BAGS PER BOX

ENVIRONMENTAL PROTECTION DEGRADABLE IN LANDFILL CONDITIONS IN 12 MONTHS  
MIN TO 24 MONTHS MAX

BAGS MAY BE SUBJECT TO THE FOLLOWING TEST METHODS FOR QUALITY CONTROL:

LOAD CAPACITY TEST - 5 BAGS FROM THE LOT SHALL BE PLACED ON A SMOOTH HORIZONTAL SURFACE AND SPREAD OPEN TO FACILITATE INSERTING THE TEST LOAD; CANS CONSTITUTING THE TEST LOAD SHALL BE FREE FROM BURRS OR SHARP EDGES AND PLACED INDIVIDUALLY IN THE BAG BY HAND; EACH CAN SHALL WEIGH BETWEEN 1 AND 2 POUNDS; STACKING IS NOT REQUIRED; BUNCHING SHALL BE AVOIDED; THE BAG SHALL BE GRASPED OR CLAMPED WITHIN 12 INCHES OF THE TOP AND RAISED BY HAND OR MECHANICAL MEANS UNTIL THE BOTTOM OF THE BAG IS NOT LESS THAN 12 INCHES FROM THE FLOOR AND HELD IN POSITION FOR NOT LESS THAN 60 SECONDS.

TEST LOAD FAILURE - SPILLAGE OR ANY TEAR IN THE BAG OF MORE THAN 1 INCH CONSTITUTES A TEST FAILURE; THE LOT SHALL BE REJECTED IF 1 OR MORE OF THE 5 TEST BAGS SELECTED FAILS

SEAL CONTINUITY TEST - WATER SHALL BE ADDED TO THE BAG WHILE BEING PLACED IN A CLEAN CONTAINER WITH SMOOTH SIDES; THE WATER VOLUME SHALL BE 70 DEGREES (+5) F; WEIGHT SHALL BE 50 + 1 PERCENT OF THE LOAD CAPACITY SPECIFIED IN THE CONTRACT; THE BAG SHALL BE GRASPED OR CLAMPED WITHIN 12 INCHES OF THE TOP AND RAISED BY HAND OR MECHANICAL MEANS UNTIL THE BOTTOM OF THE BAG IS NOT LESS THAN 12 INCHES FROM THE FLOOR AND HELD IN POSITION FOR NOT LESS THAN 60 SECONDS SEAL CONTINUITY TEST FAILURE ANY LEAKAGE CONSTITUTES A TEST FAILURE; THE LOT SHALL BE REJECTED IF 1 OR MORE OF THE 5 TEST BAGS SELECTED FAILS

PACKAGING/PACKING: One hundred (100) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

Regulatory requirement (Plastic Trash Bags): The contractor shall certify that the product offered shall include a minimum range of 10 - 100 % postconsumer recovered material in accordance with the EPA Comprehensive Procurement Guidelines, which may be found at:

[www.epa.gov/epawaste/consERVE/tools/cpg/index.htm](http://www.epa.gov/epawaste/consERVE/tools/cpg/index.htm)

UI: BX (one hundred (100) bags in a box)

**NSN: 8105-01-589-5232**

ITEM NAME	BAG, PLASTIC, GENERAL PURPOSE:
OVERALL WIDTH	36.00 INCHES
OVERALL LENGTH	60.00 INCHES
OVERALL THICKNESS	0.004 INCHES
COLOR	BLACK
MATERIAL	POLYETHYLENE
UNIT PACKAGE QUANTITY	75

PACKAGING/PACKING: Seventy-five (75) bags shall be packaged in a box in accordance with normal commercial practice and packed to assure acceptance by common carrier and to provide product protection against loss or damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and the Uniform Freight Classification, and shall not be more than 51 pounds in weight.

UI: BX (Seventy-five (75) bags shall be packaged in a box)