INCH POUND

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SUPERSEDING
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COMMERCIAL ITEM DESCRIPTION

COVER, WATERPROOF, MULTIPURPOSE

The General Services Administration has authorized the use of this Commercial Item Description in preference to MIL-C-1997.

1. Scope This document covers one type of waterproof cover.

2. Classification. The cover shall be of the following sizes:

Size	1	- 8inches wide,	18 inches long
Size	2	- 10inches wide,	56 inches long
Size	3	- 15inches wide,	45 inches long
Size	4	- 20inches wide,	84 inches long

3. Salient Characteristics.

3.1 Description. All covers shall be constructed from polyethylene lay flat tubing. One end of the tube shall be closed with a heat seal. Excess material beyond the seal shall be trimmed evenly. Covers are intended to provide waterproof, lightweight protection for small arms against rain and moisture, as water carrying bags, or protectors for miscellaneous small items of clothing and equipment, or they may be inflated to improvise light-weight water crossing rafts. The end of the tube shall be closed with a heat seal and shall not be less than 1/16 inch wide nor more than ¾ inch wide. Excess material beyond the seal shall be trimmed evenly, not to exceed ½ inch.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Supply Center Philadelphia, Clothing & Textiles Directorate, ATTN: DSCP-COET,700 Robbins Ave, Philadelphia, PA 19111-5092.

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3.2 Basic Material. The film shall be flexible unsupported normal strength polyethylene lay flat tubing, medium slip of 0.5 in accordance with ASTM D 1894, having a treated finish conforming to ASTM D 2578 (Finish 2), with 35 minimum dynes/cm.. The density of the film shall be 0.914 to 0.950grams per cubic centimeter, and the film shall have a minimum impact resistance of 125 grams. The film shall be 0.004 inch thick with a tolerance of +/- 25 percent and the thickness shall apply to the individual determination. The material shall be free from cuts, cracks, holes, dirt, gels, or other defects which may impair its utility or appearance. The color of the film shall approximate color chip #24084 of FED-STD-595. An opaque type (non-transparent) comparable to color #27038, 27040, are acceptable.

3.3 Cord. The cotton cord shall be a general purpose and sash cord with a mildew resistance finish. The cord shall be 1/8 (+/- 1/64) inch in diameter with a breaking strength of 100 lbs. min. The linear density shall be .60 lbs./100ft. max. The color of the cord shall be Camouflage Green 483. Each size 2 and size 3 cover shall be furnished with a 72 +/- 2 inch piece of cotton cord. The ends of the cord shall be either tipped or resin coated. The cord shall not be attached to cover. No extraneous materials shall be added for the purpose of weighting the cord. Extractable matter shall not exceed 10%.

3.4 Label/marking. Each cover shall be labeled with the following:

Item description
Contract number
Stock number
Size
Contractor's name

The size of the characters shall be approximately 1/4 inch high. A white marking medium shall be used. The label shall be clearly legible after being subjected to the ink adhesion test. The label shall be located midway (+/- 2 inches) between the sealed seam and the opening.

3.4.1 Bar Code/Label Tag. Each item shall be individually bar-coded with a paper tag, standard bleach sulfate with a basis weight of 100 lbs. The bar code shall be a 13 digit national stock number (NSN). The bar code shall be used with a medium to high code density and shall be human-readible interpretation (HRI). The label/tag shall be located so that it is completely visible on the item when it is completely folded and/or packaged as specified and shall cause no damage to the item.

3.5 Sizes and Measurements. The inside finished measurements and tolerances for each size cover shall conform to the measurements below.

	Width (inches)	Length (inches)
Size 1	8 +/- 1/4	18 +/- ½
Size 2	10 +/- 1/4	56 +/- 1
Size 3	15 +/-1/2	45 +/- 1
Size 4	20 +/-5/8	84 +/- 1 ½

3.6 Performance

3.6.1 Requirement for seam and crease strength. The breaking strength of the seam shall be not less than 60 percent of the breaking strength of the film when tested as specified. The breaking strength at the side creases of the cover shall not be less than 50 percent of the breaking of the film when tested as specified.

3.6.2 Leakage requirement. The cover shall not leak or separate at the seam when tested as specified.

3.6.3 Requirement for label adhesion. Each cover shall have a label that is directly printed, stamped or stenciled on the cover. The contents, size and the characters of the inscription, and the format shall be as follows:

Item Description
- minimum of 18 points (approximately ¼ inch)

Contract Number
- minimum of 18 points (approximately ¼ inch)

Stock Number
- minimum of 18 points (approximately ¼ inch)

Size (when specified)
- minimum of 18 points (approximately ¼ inch)

Contractor's name (bottom of label)
- maximum of 18 points (approximately ¼ inch)

The label shall be clearly legible after being subjected to the ink adhesion test as specified. The label shall be located midway (± 2 inches) between the sealed seam and the opening.

3.7 Workmanship. After completion, the finished covers shall be thoroughly clean, well finished, free from gels, pinholes, holes, cracks and blisters, fish eyes, mottling, particles of foreign matter and undispersed raw material. Raw edges shall be free from nicks and cuts.

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

5. Quality Assurance

5.1. Product Conformance. The contractor shall certify that the product offered meets the salient characteristics of this description :that the product conforms to the producer's own drawings, specifications, standards and quality assurance practices. The Government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for,

under the provisions of the contract. Reliance on contractor QA systems shall not relieve the contractor of the responsibility of ensuring that all products, supplies submitted to the government for acceptance comply wit ill requirements of the contract.

5.2. Visual Examination. Lots of covers shall be inspected in accordance with "Sampling Procedures and Tables for Inspection by Attributes", ANSI/ASQC Zl.4, published by the American Society' for Quality Control. Each cover shall be examined for the defects listed below.

5.2.1 Defects. The cover shall be uniform in quality and shall be free from irregularities or defects which affect performance, reliability, or durability. Commercial defects: cuts, cracks, holes, dirt gels, or other defects which may impair its utility or appearance; not uniform in color, texture and finish; variation in film thickness; any foreign material; label missing or not as specified; measurement of item not as specified; not heat sealed across one end; excess material not trimmed evenly. The cotton cord not of color CG 483; not one piece; any cut; chafed or damaged; core missing; kinks, broken or loose ends; unevenly braided resulting in open places, breaks in continuity of braid or soft spots; finish gummy or tacky; ends not tipped or resin coated. Bar code/label tag omitted or not readable by scanner; human readable interpretation (HRI) omitted or illegible; not visible on folded packaged item; or causes damage to the item.

5.3. Dimensional Examination. The finished covers shall conform to the dimensions specified. Any dimension that is not within the established tolerance shall be classified as a defect.

5.4 End Item Performance Testing. The end item shall be tested for label adhesion, seam strength, crease strength, and leakage.

5.4.1 Ink adhesion label test. The ink adhesion shall be determined in accordance with ASTM-F-1842 except that the test shall be performed on the label of a finished cover. The test area of the label shall be visually examined for legibility.

5.4.2 Seam and crease strength tests. Strength of the heat sealed seam area and the creased area shall be determined in accordance with method ASTM D 882. The specimens shall be 1 inch in width and shall be cut from a finished cover with the seam or crease across the short dimension and equidistant from the ends. The gage marks need not be applied and the elongation need not be measured. The initial separation between the grips of the apparatus shall be 2 inches and the specimen shall be placed in grips with the seam or crease equidistant between the grips. The strength of the seam or crease reported in pounds to the nearest 0.1 pound, shall be the average of 5 determinations per sample unit. The film strength shall be determined by the same method used to determine the seam strength except that specimens shall be cut from the unseamed and uncreased section of the cover with the long dimension parallel to the long dimension of the cover and all reference to the seam or crease shall not apply. The strength of the film, reported in pounds to the nearest 0.1 pound, shall be the average of 5.0 determinations per sample unit.

5.4.3 Leakage test. The cover shall be marked 5 inches from the inside of the seam and filled with water

to the mark. The temperature of the water shall be 73.5 ± 2 degrees F. The cover shall then be suspended over a dry receptacle for a period of 3 hours. At the end of the 3-hour period, the cover shall be examined for seam separation and leakage of the water into the receptacle.

5.4.4. Packaging Examination., The fully packaged shipping containers shall be examined in accordance ANSI/ASQC Z 1.4 published by the American Society' for Quality Control and in accordance with defects listed below. The lot size shall be the number of shipping containers in the inspection lot.

Examination	Defect
Material	Missing, damaged, not as required.
Content	Number of covers per shipping container is more or Less than required..

6. Packaging.

6.1. Packaging, Packing, Marking, and Palletization
Packaging, packing, marking and palletization shall be in accordance with ASTM-D 3951.

Note: Each shipping container shall contain only one National Stock Number (NSN) and a total quantity of 1000 size 1 covers, 350 size 2 covers, 250 size 3 covers and 100 size 4 covers, packaged as specified above.

7. NOTES

7.1 Source of Government Documents. Copies of Military and Federal documents are available from:
Standardization Documents Order Desk
Bldg. 4D
700 Robbins Avenue
Philadelphia, PA 19111—5094

7.2 Sources of Non-government Documents

ANSI/ASQC Zl.4 - Sampling Procedures and Tables For Inspection By Attributes

(Applications for copies should be addressed to American National Standards Institute, 1430 Broadway, New York, NY 10018-3308.)

ASTM TEST METHODS

ASTM-D-822 - Standard Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Arc Exposure Apparatus.

ASTM-F-1842 – Standard Test Method for Determining Ink and Coating Adhesion on Plastic Substrates for Membrane Switch Apparatus.

ASTM-D-1894 – Standard Test Method for Static and Kinetic Coefficients of Friction of Plastic Film and Sheeting.

ASTM-D-2578-99a – Standard Test Method for Wetting Tension of Polyethylene and Polypropylene Films.

ASTM-D 3951 - Standard Practice for Commercial Packaging

(Applications for copies should be addressed to American Society For Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

Custodian:
Army – GL
Navy - NU

Review Activity:
NAVY/MC

Civil Agency Coordinating Activity:
GSA-FSS

Preparing Activity:
DLA-CT

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