

INCH-POUND

A-A-52105
May 7, 1991

COMMERCIAL ITEM DESCRIPTION

CLOTH, INTERLINING, COTTON OR SYNTHETIC WARP,
AND SPUN HAIR-WOOL OR RAYON FILLING

The General Services Administration has authorized the use of this Commercial Item Description in preference to Military Specification MIL-C-297.

Abstract. This Commercial Item Description covers cotton or synthetic warp, and spun hair-wool or rayon filling cloth material intended for use as interlining material in various clothing items.

1. CLASSIFICATION

1.1 Classification. The cloth material shall be of the following types as specified (see 5.1).

Type I - Light weight
Type II - Medium weight
Type III - Heavy weight

2. SALIENT CHARACTERISTICS

2.1 General description. The warp yarns shall be either 100 percent cotton, 100 percent polyester, or any combination of polyester and cotton, or from 45 to 70 percent polyester with the remaining percentage rayon. The filling yarns shall be either a staple fleece or pulled wool blended with goat-hair and spun on the worsted system into singles, or a blend of goat-hair and rayon spun into

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AMSC N/A

FSC 8305

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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singles yarn. The cloth shall be plain weave and shall be preshrunk. The width shall be as specified (see 5.1) and shall be the minimum acceptable width inclusive of the selvage when fly-shuttle looms or shuttleless looms with tuck-in selvages are used. For all other shuttleless looms the width measurement shall be made between the last warp yarn on each side excluding the protruding fringe(s). The color of the finished cloth shall be natural or dyed as specified (see 5.1) and shall match the standard sample when viewed under filtered tungsten lamps that approximate artificial daylight and that have a correlated color temperature of 7500 • 200K, with illumination of 100 • 20 foot candles, and shall be a good match to the standard sample under incandescent lamplight at 2300 • 200K. The use of dyes and compounds containing elementary sulfur capable of oxidation to sulfuric acid is prohibited.

2.2 Physical requirements. The finished cloth shall conform to the requirements listed in table I.

TABLE I. Physical requirements

Characteristic	Requirements			Test method <u>1/</u>
	Type I	Type II	Type III	
Warp yarn identification:				
Cotton	-	-	-	1200
Synthetic	-	-	-	1600
Filling yarn identification:				
Goat-hair and wool	-	-	-	-
Goat-hair and rayon	-	-	-	-
Animal fiber content percent: <u>2/</u>				
Goat-hair and wool filling	45	45	45	2100
Goat-hair and rayon filling	20	20	20	2100
Colorfastness to:				
Perspiration	Good	Good	Good	5680
Steam pressing	Good	Good	Good	5640
Sublimation	Good	Good	Good	5642
Wet drycleaning	Good	Good	Good	5622
Labile sulfur content	<u>3/</u>	<u>3/</u>	<u>3/</u>	2020
Weight, oz./sq. yd.				
Minimum	5.0	7.0	7.5	5041
Maximum	7.0	8.0	9.0	5041
Yarns per inch (min):				
Warp	42	42	42	5050
Filling	34	34	34	5050

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TABLE I. Physical requirements (cont'd)

Characteristic	Requirements			Test method <u>1/</u>
	Type I	Type II	Type III	
Breaking strength, lbs. (min):				
Warp	50	50	50	5100
Filling	45	45	45	5100
Stiffness, <u>4/</u> load-pounds (min): (filling only)	0.005	0.011	0.016	5202
Shrinkage, percent (max):				
Warp	3.0	3.0	3.0	5558 <u>5/</u>
Filling	2.0	2.0	2.0	5558 <u>5/</u>

- 1/ The test methods indicated, from FED-STD-191 Textile Test Methods, have been found acceptable to determine if the cloth meets the stated requirements. If the Government requires proof that the cloth meets the stated requirements, the test methods indicated shall be used.
- 2/ The percent animal fiber content of the finished cloth shall be based on the dry desized weight of the specimen.
- 3/ The dyed and finished cloth shall contain no more labile sulfur than shown by standard sample. When a standard sample is not available the cloth shall show not more than a "slight" trace of labile sulfur as defined in the test method.
- 4/ Measured parallel with the filling direction.
- 5/ Method 5558 shall be used except that the specimen shall be dried as specified in Method 5550. The cloth shall be kept submerged for a period of 30 minutes in water containing a minimum amount of a suitable wetting agent to thoroughly wet out the fabric.

2.3 Length and put-up. Unless otherwise specified (see 5.1), cloth shall be furnished in continuous lengths each not less than 40 yards. The cloth shall be put-up full width on rolls as specified in 4.1.

3. QUALITY ASSURANCE

3.1 Certification. The contractor shall certify, and maintain substantiating evidence, that the product offered meets the salient characteristics and requirements of this Commercial Item Description, and 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 first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

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3.2 Visual examination. Lots of cloth shall be inspected in accordance with MIL-STD-105. The inspection level shall be I and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 6.5. The lot size shall be expressed in units of yards. The sample unit shall be 1 linear yard. The cloth shall be examined for the following defects: hole, cut, tear, smash, multiple floats, broken or missing end or pick, embedded crease or wrinkle, spots, or stains.

3.3 Length examination. During the visual examination, each roll in the sample shall be examined for length. Any length found to be less than the minimum specified or more than 2 yards less than the length marked on the roll ticket shall be considered a length defect. If two or more rolls in the sample are defective with respect to length or if the total of the actual lengths of rolls in the sample is less than the total of lengths marked on the roll tickets, the lot shall be rejected.

3.4 Regulatory requirements. The offeror/contractor is encouraged to use recovered material in accordance with Public Law 94-580 to the maximum extent practicable.

4. PACKAGING

4.1 Packaging. The cloth shall be rolled on a convolute or spiral-wound chipboard tube. The tube shall have a smooth finish surface that will prevent the fibers of the chipboard from transferring to the cloth. Each roll of cloth, put-up as specified, shall be wrapped with 60-pound minimum basis weight kraft paper in such a way that the paper encircles the roll at least once with a minimum overlap of 3 inches, and the width of the paper is sufficient to fold over and protect the ends of the roll. Gummed paper tape, with a minimum width of 2-1/2 inches shall be applied to the overlap seam the full length of the roll and across each end. Alternatively, each roll of cloth shall be enclosed in polyethelene film tube and the tube secured at both ends by heat-sealing or mechanical ties.

4.2 Packing. Each wrapped roll shall be enclosed in a bias-sewn tubing made from woven polypropylene cloth. The tube shall be secured by heat-sealing, by means of a mechanical tie, or by plastic ties with a lock-end. Alternately, a maximum of 325 pounds of rolls of kraft-wrapped cloth shall be packed in a snug-fitting double-walled fiberboard container known as a double cover, and shall consist of a body or joined liner and two covers. Corrugated fiberboard with a minimum bursting strength of 500 pounds shall be used. The container shall be strapped with metallic straps not less than 1/2 by 0.020 inch or non-metallic straps not less than 7/16 by 0.030 inch.

4.3 Marking. In addition to any special markings required by the contract or purchase order, rolls and shipping containers shall be marked in accordance with MIL-STD-129. Each roll shall have a piece ticket (identification tag) affixed with a 5-ply minimum cotton string or a plastic tag hanger. The tag shall have a reinforced eyelet and shall be legibly printed, using water insoluble ink, with the following information:

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Procurement Agency
 National Stock Number
 Item Description
 Contractor
 Width
 Fiber Content

Contract or Purchase Order Number
 Finish or Greige Mill
 Roll Number
 Lot Number
 Piece Number
 Yardage

5. NOTES

5.1 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number and date of this document.
- b. Type of cloth required (see 1.1).
- c. Width of cloth required (see 2.1).
- d. Color of cloth required (see 2.1).
- e. Length and put-up if other than specified (see 2.3).

5.2 Sources of documents.

5.2.1 Source of Government documents. Copies of Military and Federal documents are available from:

Standardization Documents Order Desk
 Building 4D
 700 Robbins Avenue
 Philadelphia, PA 19111-5094

5.3 Replacement data. The types of cloth covered by this Commercial Item Description replace types covered by MIL-C-297 as follows:

<u>This CID</u>	replaces	<u>MIL-C-297</u>
Type I - Light weight		Type III - Light weight
Type II - Medium weight		Type I - Medium weight
Type III - Heavy weight		Type II - Heavy weight

MILITARY INTERESTS:

Custodians

Army - GL
 Navy - NU
 Air Force - 99

Review Activities

Army - MD
 Navy - MC
 Air Force - 82
 DLA - CT

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

PREPARING ACTIVITY:

Army - GL

(Project 8305-0380)