

INCH-POUND

A A-52085

January 2, 1991

COMMERCIAL ITEM DESCRIPTION

CLOTH, DRILL, COTTON

The General Services Administration has authorized the use of this commercial item description in preference to Federal Specification CCC-C-426.

1. CLASSIFICATION

1.1 Classification. This commercial item description covers cotton drill cloth in the following types as specified (see 5.2).

- Type I - Nominal 60 picks per inch
 - Class 1 - Natural
 - Class 2 - Natural, preshrunk
 - Class 3 - Bleached or dyed, preshrunk
- Type II - Nominal 48 picks per inch
 - Class 3 - Bleached or dyed, preshrunk

2. SALIENT CHARACTERISTICS

2.1 General description. The cloth shall be a two up-one down left hand twill weave, using 100 percent cotton singles yarn for both the warp and the filling. The width shall be as specified (see 5.2) and shall be the minimum acceptable width inclusive of selvages 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 fringes. The color of the class 3 finished cloth, when dyed as specified (see 5.2), shall match the standard sample when viewed under filtered tungsten lamps that approximate artificial daylight and that have a correlated color temperature of $7500 \pm 200K$, with illumination of 100 ± 20 foot candles, and shall be a good match to the standard sample under incandescent lamplight at $2300 \pm 200K$.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any other data which may improve this document should be sent to: Commander, U.S. Army Natick Research, Development, and Engineering Center, ATTN: STRNC-IRT, Natick, MA 01760-5019.

AMSC N/A

FSC 8305

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

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

TABLE I. Physical Requirements

Characteristic	Type I			Type II	Test method
	Class 1	Class 2	Class 3	Class 3	
Colorfastness to.					
Light	-	-	Good	Good	5660
Perspiration	-	-	Good	Good	5680
Laundering	-	-	Good	Good	5610
Wet drycleaning	-	-	Good	Good	5622
Crocking (min)	-	-	3.5 <u>2/</u>	3.5 <u>2/</u>	5651
Weight, oz./sq.yd. (min)	7.0	7.0	6.5	6.0	5041
Yarns per inch (min):					
Warp	72	74	74	74	5050
Filling	60	58	56	44	5050
Breaking strength, lbs (min):					
Warp	116	105	105	90	5100
Filling	82	75	70	55	5100
Shrinkage, percent (max):					
Warp	-	2.0	2.0	2.0	5550
Filling	-	2.0	2.0	2.0	5550
Nonfibrous content, <u>3/</u> percent (max)	12.0	5.0	2.0	2.0	2611
Labile sulfur content	-	-	<u>4/</u>	<u>4/</u>	2020
pH	<u>5/</u>	<u>5/</u>	<u>5/</u>	<u>5/</u>	2811

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/ Refers to AATCC Chromatic Transference Scale Rating.

3/ Nonfibrous material consists of the starch and protein content including chloroform-soluble and water-soluble material present in the finished cloth.

4/ Equal to standard sample or shall show no more than a "slight" trace.

5/ No less than 5.5 nor more than 8.5.

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2.3 Length and put-up For Government procurements only, unless otherwise specified (see 5.2), the cloth shall be furnished in lengths of 100 ± 2 yards and no piece shall be 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.

3.2 Visual examination. Lots of cloth shall be inspected in accordance with MIL-STD-105. The inspection level shall be II 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 one linear yard. The cloth shall be examined for the following defects: hole, cut, tear, missing end or pick, thick or thin areas, permanent crease, slubs, slugs or gout, shade bar, streaks, spots, stains or uneven dyeing.

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 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 shall encircle the roll at least once with a minimum overlap of 3 inches, and the width of the paper shall be 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.

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4.2 Packing Each wrapped roll shall be enclosed in a close-fitting polyethylene film tube with a minimum thickness of 0.004 inches or 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. Alternatively, a maximum of four 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:

Procurement Agency	Contractor or Purchase Order Number
National Stock Number	Finish or Greige Mill
Item Description	Roll Number
Contractor	Lot Number
Width	Piece Number
Fiber Content	Yardage

5. NOTES

5.1 Intended use. The cloth is intended for use in clothing and equipment items.

5.2 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number and date of this document.
- b. Type and class of cloth required (see 1.1).
- c. Width of cloth required (see 2.1).
- d. Color of cloth required, class 3 only (see 2.1).
- e. Length and put-up, if other than specified (see 2.3).

5.3 Sources of documents.

5.3.1 Sources for nongovernment association documents.

AATCC Chromatic Transference Scale is available from:

American Association of Textile Chemists and Colorists (AATCC)
P.O. Box 12215
Research Triangle Park, NC 27709-2215

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5 3 2 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

MILITARY INTERESTS

Custodians

Army - GL
Navy - NU
Air Force - 11

Review Activities

Army - MD
Air Force - 82, 99
DLA - CT

User Activity

Navy - MC

CIVIL AGENCY COORDINATING ACTIVITIES:

GSA - FSS
HHS - HSM
VA - DSM
JUS - FPI

PREPARING ACTIVITY:

Army - GL
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