

INCH-POUND

A-A-59992

November 29, 2018

COMMERCIAL ITEM DESCRIPTION

CLOTH, INTERFACINGS: WOVEN, COTTON AND SYNTHETIC

The General Services Administration has authorized the use of this Commercial Item Description (CID) by all federal agencies.

1. SCOPE. This Commercial Item Description covers the requirements for the cloth, interfacings, woven, cotton and synthetic intended for use as reinforcement materials on various clothing and hat items. (Note: The term interfacing instead of interlining is the correct term to describe the cloths cited in this document). This CID includes interfacing requirements previously specified in five (5) different CIDs, (see cross reference 7.3).

2. CLASSIFICATION. This CID covers the following Types and Classes as specified.

1.2.1 Types and Classes.

Type I - Cotton/polyester/rayon/nylon blends

Class 1 - Plain weave - 5.8 (\pm) 0.2 oz. per sq. yd

Class 2 - Plain weave - 4.5 (\pm) 0.2 oz. per sq. yd

Type II – Polyester

Class 3 - Plain weave - 2.0 oz. per sq. yd. (minimum)

Class 4 - Plain weave - 3.3 oz. per sq. yd. (minimum)

Type III – Cotton

Class 5 - Buckram cloth, plain weave - 3.5 - 6.5 oz. per sq. yd

Class 6 - Buckram cloth, plain weave - 6.5 -7.5 oz. per sq. yd

Class 7 - Buckram cloth, herringbone twill weave

Class 8 - Wigan cloth, plain weave - 2.3 oz. per sq. yd. (minimum)

Class 9 - Wigan cloth, plain weave - 3.4 oz. per sq. yd. (minimum)

Type IV - Cotton and rayon, plain weave

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: Attn: DLA Troop Support, 700 Robbins Avenue, Philadelphia, PA 19111-5096. Since contact information can change, you may want to verify the currency of the address information using Acquisition Streamlining and Standardization Information System (ASSIST) online database <https://assist.dla.mil/>.

A-A-59992

3. SALIENT CHARACTERISTICS.

3.1 Cloth type descriptions.

3.1.1 Type I cloth, cotton/polyester/rayon/nylon blends. The Type I, Class 1 and 2 interfacing cloth warp yarns shall be either 100 percent carded or combed single ply cotton, 100 percent polyester or a combination of polyester and cotton or from 45 to 100 percent polyester with the remaining percentage rayon. The filling yarns shall be 100 nylon or co-polyester monofilament. The cloth shall be plain weave.

3.1.2 Type II cloth, polyester. The Type II, Classes 3 and 4 interfacing cloth shall be 100 percent multifilament polyester yarns. The cloth shall be plain weave.

3.1.3 Type III cloth, cotton. The Type III, Classes 5, 6 and 7 interfacing cloth shall be a buckram cloth and Class 8 and 9 shall be a wigan cloth made from 100 percent carded cotton spun into singles yarns. Classes 5, 6, 8 and 9 cloths shall be plain weave. Class 6 cloth shall be a herringbone twill weave.

3.1.4 Type IV cloth, cotton and rayon. The Type IV interfacing cloth warp yarns shall be single ply cotton and the filling yarns shall be two ply rayon. The cloth shall be plain weave.

3.2 Color. The color of the finished cloth shall be natural or white unless otherwise specified (see 7.6).

3.2.1 Colored cloths. When a color is specified, it shall show colorfastness to dry cleaning equal to a rating of "3" or better after one (1) cycle for staining when tested using AATCC Test method 132. It shall show colorfastness to laundering equal to a rating of "3" or better after one (1) cycle for staining when tested using and AATCC test method 61, test 2A and it shall show colorfastness to perspiration (acid and alkaline) equal to a rating of "3" or better for staining when tested using AATCC test method 15. The use of dyes and compounds containing elementary sulfur capable of oxidation to sulfuric acid is prohibited. The dyed cloth shall be "Free" of labile sulfur when tested as specified in 3.4.

3.3 Physical characteristics and requirements. The finished cloth shall conform to the physical characteristics specified in Table I when tested in accordance with test methods stated in Table I.

A-A-59992

TABLE I. Physical requirements and test methods.

Characteristic	Requirement										Test Method
	Type I		Type II		Type III					Type IV	
Classes	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	---	
Fiber content	Cotton/polyester/ rayon/nylon		Polyester	Polyester	Cotton - Buckram			Cotton - Wigan		Cotton & Rayon	AATCC 20A (see 7.5)
Weave	Plain	Plain	Plain	Plain	Plain	Plain	Herringbone twill	Plain	Plain	Plain	
Weight, oz./sq.yd.											
Minimum	5.8	4.5	2.0	3.3	--	--	12	2.3	3.4	7.0	ASTM D3776/D3776M
Range	--	--	--	--	3.5- 6.5	6.5-7.5	--	--	--	--	
Yarns per inch (min.)											
Warp	30	30	57	57	45	45	45	45	45	50	ASTM D3775
Filling	24	24	37	37	40	40	20	35	35	35	
Breaking strength, lbs (min.)											ASTM D5034
Warp	--	--	115	115	55	55	130	30	45	75	
Filling	--	--	80	90	45	45	110	20	45	65	
Stiffness, inch-pound											ASTM D747
Minimum	0.100	0.060	0.003	0.003	.0200	0.003	--	0.003	0.003	0.001	
Maximum	0.210	0.100	0.012	0.012	.0400	0.020	--	0.012	0.012	0.015	
Dimensional stability, percent (max.)											AATCC 135, (3)(IV)(A)iii
Warp	2.0	2.0	2.0	2.0	3.0	2.0	4.0	3.0	3.0	4.0	
Filling	2.0	2.0	2.0	2.0	3.0	2.0	4.0	3.0	3.0	4.0	

A-A-59992

3.4 Presence of labile sulfur. In the determination of labile sulfur in textile materials with lead acetate, two (2) 1.50 gram (± 0.01) gram samples from each material submitted for evaluation shall be tested. Each of the two (2) samples shall be cut into very small pieces and placed into separate test tubes. The samples shall be submersed in a stannous chloride solution that contains 100 grams of stannous chloride crystals ACS in 100 millimeters of hydrochloric acid ACS (35 percent concentration) and 50 milliliters of distilled water. A filter paper wet out with a 5.0 percent lead acetate solution shall be placed over the top of the test tube. The lead acetate solution contains 5.0 grams of lead acetate CP reagent grade and enough distilled water to make up a 100 milliliter solution; if the solution is not clear, add a few drops (one at a time) of glacial acetic acid until the solution is clear. The test tube containing the textile sample, stannous chloride and wet filter paper shall be heated over a low flame until the solution is boiling. The solution should not be heated for more than 15 seconds. A brown to black stain on the filter paper should be evaluated as follows.

Free	-	The filter paper shows no discoloration of staining of any kind.
Slight	-	The filter paper shows a light tan to light brown discoloration stain.
Moderate	-	The filter paper shows a dark brown discoloration stain.
Severe	-	The filter paper shows a black color stain.

3.5 Length and put-up. For Government procurement only, unless otherwise specified (see 7.6), the cloth shall be furnished in continuous lengths of not less than 40 yards and shall be put-up full width on rolls.

3.6 Labels. Each roll of finished cloth shall be labeled or ticketed for fiber content in accordance with the Rules and Regulations under the Textile Fiber Products Identification Act.

3.7 Workmanship. The finished cloth shall conform to the quality of product established by this document. The occurrence of defects shall not exceed the contractor's own quality assurance standards and the quality assurance standards defined by the technical data in the bid package.

4. REGULATORY REQUIREMENTS. Unless otherwise specified the offer/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. PRODUCT CONFORMANCE PROVISIONS.

5.1 Product conformance. The finished cloth provided shall meet the salient characteristics of this Commercial Item Description, conform to the producer's specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial marketplace. The Government reserves the right to require proof of such conformance.

5.2 Market acceptance. This finished cloth must have been sold to the commercial market or the Government.

A-A-59992

5.3 End item inspection procedures. Sampling for inspection shall be conducted in accordance with ANSI/ASQ Z1.4 – Sampling Procedures and Tables for Inspection of Attributes (see 7.2.3).

5.4 Visual examination. The finished cloth shall be examined for the defects listed below as defined in ASTM D3990:

Any hole, cut, or tear. Puckered, wrinkled or creased/pleated material. Label missing, incorrect, or illegible. Required information missing from the label. Not packaged in accordance with the contract or purchase order.

5.5 Acceptance criteria. Acceptance criteria shall be as specified in the contract or purchase order (see 7.6).

6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or purchase order (see 7.6).

7. NOTES.

7.1 Sources of Government documents.

7.1.1 Copies of Government documents are available online at <https://quicksearch.dla.mil>.

7.1.2 Rules and Regulations under the Textile Fiber Products Identification Act Copies are available online at <https://www.ftc.gov>

7.2 Sources for Non-Government documents.

7.2.1 AATCC test methods are available online at <https://www.aatcc.org>.

7.2.2 ANSI/ASQ Z1.4 – Sampling Procedures are available online at <https://www.asq.org>.

7.2.3 ASTM Standards are available online at <https://www.astm.org>.

7.3 Cross-reference. The requirements for Type I, Class 1 and 2 in this document are replacing A-A-52108. The requirements for Type II, Class 3 and 4 in this document are replacing A-A-50135. The requirements for Type III, Classes 5, 6 and 7 in this document are replacing Type I through IV of A-A-50186. The requirements stated in A-A-50186, Type V - Nonwoven are not included here. The requirements for Type III Class 8 and 9 in this document are replacing A-A-52097. The requirements for Type IV in this document are replacing A-A-52086.

7.4 Intended use. This cloth is intended to be used as interfacing for dress and service clothing items as follows:

Type I cloth, cotton/polyester or cotton/nylon. This cloth is intended for use on waistband interfacing and garrison and service cap reinforcement.

A-A-59992

Type II cloth, polyester. This cloth is intended for use on shirt collars, cuffs and front and sleeve plackets.

Type III cloth, cotton. This cloth is intended for use on waistbands, shirt collars, cuffs and plackets, sleeve reinforcement, coats, overcoats or as interfacing on other clothing items.

Type IV cloth, cotton and rayon. This cloth is intended for use on garrison and service caps.

7.5 Certificate of compliance. The contracting activity may select to accept a certificate of compliance for stated requirement.

7.6 Ordering data. The contract or purchase order should specify the following:

- a. Title, number, and date of this Commercial Item Description
- b. Type and Classes required (see 2.1)
- c. Width required (see 3.1)
- d. Color when required (see 3.2)
- e. Length put-up required (see 3.5)
- f. Labeling information (see 3.6)
- g. Product conformance provisions (see 5.1)
- h. Packaging requirement (see 6)

7.7 Subject terms.

Buckram
Polyester
Rayon
Wigan

MILITARY INTERESTS:

CIVIL COORDINATING AGENCY ACTIVITY
GSA – FAS

Custodians:

Army - GL
Navy - NU
Air Force - 11

Preparing Activity:

DLA-CT

Review activities:

Army - MD
Navy - MC

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NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using ASSIST Online database at <https://assist.dla.mil>.