

INCH-POUND

A-A-55081

5 OCTOBER 1992

COMMERCIAL ITEM DESCRIPTION

CLOTH, BRATTICE; Cotton, Fire Resistant

The General Services Administration has authorized the use of this Commercial Item Description in preference to Military Specification MIL-C-788.

ABSTRACT

Abstract. The cloth shall be one type of cotton brattice cloth with a flame-retardant finish used in conjunction with an adhesive for repairing and covering the surface of fibrous glass insulation board.

SALIENT CHARACTERISTICS

General description. The yarn shall be made of cotton of a suitable length of staple and grade which has been thoroughly cleaned, drawn, and evenly spun into singles yarn. The color of the finished cloth shall be natural. The weave shall be plain or twill. The width of the cloth inclusive of selvages shall be as specified. The width shall have a tolerance of ± 1 inch (2.5 cm). When the cloth has shuttleless loom selvages, the width of the cloth shall be as specified and shall be the minimum width of the cloth, excluding the selvages.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Personnel Support Center, Clothing and Textiles Directorate, Attn: DPSC-FSSD, 2800 South 20th Street, Philadelphia, PA 19101-8419, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 8305

DISTRIBUTION STATEMENT A.

Approved for public release;
distribution is unlimited.

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Finish. The fabric shall be subjected to a natural finish and treated with a flame retardant that shall be compatible with the adhesive covered by Class 1 of MIL-A-3316 for drying time and adhesive strength. The adhesive shall dry to touch within a period of 4 hours and dry thoroughly to constant weight within a period of 48 hours. Specimens shall have an average adhesive strength of not less than 3 pounds (13.4 Newtons) when prepared and tested according to the Compatibility Test of drying time and adhesive strength specified under End Item performance testing.

Physical requirements. The finished cloth shall conform to the following requirements:

TEST METHODS

Characteristic	Requirement	Test Method <u>1/</u>
Weight (Oz/yd ²) (g/m ²)	13.0 (\pm 2.0) (441 \pm 68)	ASTM-D 3776 Option C
Yarns Per Inch (2.5 cm)		
Warp	24 (\pm 2)	ASTM-D 3775
Filling	20 (\pm 2)	ASTM-D 3775
Breaking Strength (Lbs) (Newtons) (minimum)		
Warp	120 (534)	ASTM-D 5034
Filling	50 (223)	ASTM-D 5034
Flame retardancy (maximum)		
Char Length		
Warp	3.0 inches	5903
Filling	3.0 inches	5903
After Flame		
Warp	1.0 seconds	5903
Filling	1.0 seconds	5903
After Glow		
Warp	2.0 seconds	5903
Filling	2.0 seconds	5903

1/ The test methods indicated, from ASTM and 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. A certificate of compliance will be acceptable.

Length and put up. The minimum length of a continuous piece shall be 40 yards (36.4 m). No roll shall be more than 200 yards (182 m) in length. The pieces shall be put up in rolls and ticketed as specified in PPP-P-1135.

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Label/markings. Each roll shall be labeled or ticketed for fiber content in accordance with the Textile Fiber Products Identification Act.

Workmanship. After completion, the finished cloth shall be thoroughly cleaned, and all loose thread, lint, and foreign matter removed.

QUALITY ASSURANCE

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.

Visual examination. Cloth lots shall be inspected in accordance with ANSI/ASQC Z1.4. The inspection level shall be II and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 4.0. The lot size shall be expressed in units of yards. The sample unit shall be one linear yard full width of the finished cloth.

Defects. The cloth shall be examined for the following defects: any hole, cut, tear or open place; any smash, multiple floats, jerked in filling; any slub or knot (to be scored only when it exceeds three times the normal yarn size); any spot or stain; any crease or wrinkle; any baggy, ridgy, or wavy cloth; width more or less than specified (shall not be scored unless it occurs for more than 5 yards (4.6 m) per roll); thread ends not removed; or not labeled in accordance with the Textile Fiber Products Identification Act.

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 length of rolls in the sample is less than the total of length marked on the roll tickets, the lot shall be rejected.

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

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End Item performance testing.Finish - Compatibility Test of drying time and adhesive strength.

Specimens of 12 inch (30.5 cm) by 12 inch (30.5 cm) by 1 inch (2.5 cm) sections of fibrous glass insulation board, conforming to type I of MIL-I-742, shall be coated with fire resistant adhesive conforming to class 1 of MIL-A-3316, to an approximate thickness of 1/32 inch (0.8 mm). After the coating has dried for 5 minutes, 6 inch (15.2 cm) by 12 inch (30.5 cm) strips of the cotton brattice cloth shall be applied in such a manner that a strip of cloth covers one-half of the coated section. The cloth shall be pressed and troweled until the adhesive coating extrudes through the interstices and then shall be given a finish coating. The specimens shall then be allowed to dry for 48 hours at approximately 80⁰F (27⁰C) room temperature. At the end of this time, three 2 inch (5.1 cm) by 6 inch (15.2 cm) strips of the covering shall be cut and removed from the surface of the fibrous glass insulation board. The plies of the strips thus obtained shall be stripped back 1 inch (2.5 cm) by hand and then pulled to rupture in a tensile testing machine, the jaws of which separate at the rate of 12 inches (30.5 cm) per minute. The average results obtained from three strips of specimens shall be reported as the adhesive strength.

PACKAGING

Packaging. Shall be level A or C as specified. The cloth shall be put up and packaged in accordance with applicable requirements of PPP-P-1135.

Packing. Shall be level A, B or C as specified. The cloth shall be packed in accordance with the applicable requirements of PPP-P-1135.

Marking. In addition to any special marking required by the contract or order, shipments shall be marked in accordance with the applicable requirements of PPP-P-1135.

NOTES

Ordering data. Procurement documents should specify the following:

- a. Title, number and date of this specification.
- b. Width of cloth required.
- c. Selection of applicable levels of packaging and packing.

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

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

Rules and Regulations Under the Textile Fiber Products Identification Act is available from:

Federal Trade Commission
Washington, DC 20580

Source for Non-Government documents.

Copies of ASTM Test Methods are available from:

American Society for Testing and Materials
1916 Race Street
Philadelphia, PA 19111-5094

ANSI/ASQC Z1.4 - Sampling Procedures and Tables for Inspection By Attributes is available from:

American National Standards Institute
1430 Broadway
New York, NY 10018-3308

Custodian:
Navy - NU

Civil Agency Coordinating
Activity:
GSA - FSS

Review Activity:
Navy - NU

Preparing Activity:
DLA - CT

Project Number:
8305-0465

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

RECOMMEND A CHANGE	1. DOCUMENT NUMBER A-A-55081	2. DOCUMENT DATE (YYMMDD) 5 OCTOBER 1992
3. DOCUMENT TITLE CLOTH, BRATTICE; Cotton, Fire Resistant		
4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)		
5. REASON FOR RECOMMENDATION		
6. SUBMITTER		
a. NAME (Last, First, Middle Initial)	b. ORGANIZATION	
c. ADDRESS (Include Zip Code)	d. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON (if applicable)	7. DATE SUBMITTED (YYMMDD)
8. PREPARING ACTIVITY		
a. NAME DLA-CT	b. TELEPHONE (Include Area Code) (1) Commercial (215) 737-8105	(2) AUTOVON - DSN 444-8105
c. ADDRESS (Include Zip Code) Defense Personnel Support Center 2800 S. 20th St. (DPSC-FSSD; Bldg. 12-3-D) Philadelphia, PA 19101-8419	IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	