

INCH-POUND

A-A-55198  
17 FEBUARY 1994

# COMMERCIAL ITEM DESCRIPTION

## CLOTH, MELTON WOOL (MOTH PROOFED)

The General Services Administration has authorized the use of this Commercial Item Description in preference to MIL-C-16290.

Abstract. This Commercial Item Description covers two types of melton wool cloth with a (Moth -Proof ) finish. The cloth is intended for use in the manufacture of the Navy men's and women's clothing.

Classification. The melton Wool cloth shall be in the following types:

Type I - 16 ounce - Blue 3346  
Type II- 22 ounce - Blue 3346

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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Salient Characteristics.Material.

Wool. The stock shall be fleece or both, not lower in grade than 64's U.S standard when tested, as determined by the methods listed below. The use of noils, laps or any other wool manufacturing by-products is prohibited. The wool shall be visually examined for grade in scoured form, prior to dyeing, picking, or carding by comparison with the applicable U.S. standard. The examination for grade shall be performed on a composite sample of 1 pound (0.45 KG) of scoured wool for each 10,000 pounds (4500 Kg) or fraction thereof in the lot. The composite sample shall be selected from not less than 10 percent of the bags/bales in the lot. The lot shall be unacceptable if one or more composite samples fail to meet the requirements. The sample unit shall be 1 yard(0.91,m) of undyed top.

Yarns. The wool stock shall be thoroughly scoured, blended, carded, and evenly spun on the woolen system into singles yarn for both warp and filling.

Note: Selvage yarns: To prevent edges of the cloth from building up when rolled, the selvage yarns may be made of a finer count than the body of the cloth. These yarns shall also consists of wool fibers.

Weave. The weave for type I shall be a 2 up, 1 down right hand twill and the weave for type II shall be 3 up, 1 down crowfoot when tested

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

Table I Physical requirements

Characteristic Method	Requirement		Test
Ounces per Liner Yards $\frac{1}{1}$ (Grams per Liner m-1.72m wide)	Min.	Max.	
Type			
I	16(448g)	17(476g)	ASTM D 3776 (Small Method)
II	22(616g)	24(672g)	
C.			
Yarns per inch (2.54cm)	Minimum		
Type	Warp	filling	
I	60	55	ASTM D 3775
II	55	45	

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Table I Physical requirements

Characteristic Method	Requirement		Test
Breaking strength in pounds (Neuton's)	Minimum		
	Warp	filling	
Type			
I	58	46	ASTM.D.5034
II	80	60	
Shrinkage (percent)	Minimum		
	Warp	filling	
Type			
I	4.0	3.0	AATCC 99
II	4.5	2.0	
Wool content	Not less than 95.0 percent		AATCC - 20A
pH	4.0 to 8.0		AATCC - 81
Wet- dry cleaning	4.0		AATCC - 132
Perspiration	4.0		AATCC - 15
Crocking	4.0		AATCC.- 8
Laundrying	4.0		AATCC.- 61
Yarn ply			Visual
Weave			Visual
Weight			
Type			
I			ASTM D 3776
II			ASTM D 3776

Colorfastness:

Light

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Using the formula below 16.5 to 23.5 AFU's are acceptable as SFH's.

1/ Based on 56 inch width

The width of the cloth shall be as specified and shall be the minimum acceptable width inclusive of selvage when fly shuttle looms or c with tuck-in selvage looms are used. For all other shuttleless looms, the width measurement shall be between the last warp yarn on each side excluding the protruding fringe(s).

Mothproofing compound

Sodium 5-chloro-2- [4-chlorohyhy+- [3-(3,4 dichloropheny 1)-

ureido]phenoxy] benzenesulfonate. The formulation containing sodium 5-choloro-2-[4 choloro-2-[3-(3, 4 dichlorophenyl)-uredio] phenoxy] benzenesulfonate may be obtained under the trade name of Mitin F F High Concentrate from Ciba-Geigy Corp., Dyestuffs and Chemical Division, Swing Road, P.O Box 18300, Greensboro, NC

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27049, Or under the name of Intracide M from Crompton and Knowels Corp., Dyes and Chemical Division. Box 33188, 3001 North Graham Street, Charlotte, NC 28233.

$$\text{AATCC Fading Units} = \frac{(\Delta E) (20)}{1.7 \pm 0.3}$$

Where  $(\Delta E)$  is the color difference in CIELAB units of color difference. Only the stained on the wool fibers of the color transfer cloth shall be evaluated.

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

Product Demonstration Model. When required, offerers shall submit samples of their intended production. The Product Demonstration Model will consist of units independently developed. Product Demonstration Models will be analyzed and evaluated by the government. Evaluation criteria and basis for award are contained in the solicitation. Product Demonstration Models will be retained by the government. One (1) Product Demonstration Model approved by DPSC under the resultant contract will serve as a manufacturing standard for the corresponding production items delivered under this contract. Offerers are advised that the Product Demonstration Model does not relieve the successful offerer of his responsibility to perform in accordance with the Commercial Item Description specified above.

#### Quality Assurance

Certification. The contractor shall certify that the product offered meets the salient characteristics of this 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 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 or supplies submitted to the government for acceptance comply with all requirements of the contract.

#### Maximum acceptable point values

Quality Level	Entire sample	Individual
rolls		
Normal		
Inspection		
8	8 pts. per 100 sq. yd.	12 pts. per 100 sq. yd.

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Maximum acceptable point values

yd.	10	10 pts. per 100 sq. yd.	15 pts. per 100 sq.
	12	12 pts. per 100 sq. yd.	18 pts. per 100 s
q. yd.	15	15 pts. per 100 sq. yd.	23 pts. per 100 sq.
yd.			

Examination.

Visual Examination. The inspection level for visual examination shall be according to the Maximum acceptable point chart and the AQL will be determined by the point system. The sample unit is the point value per 100 sq.yds. for the total yardage in any individual roll. See the table of Maximum acceptable point values.

## Examination for Defects

Limits of slubs and knots. Only those slubs and knots which exceed the limits shown on the Sears Fabric Defect Scale, D or 3-1/2 as applicable for slubs and C for knots shall be scored.

Examination for length. The examination for length shall be as specified in MIL-STD-655.

Examination for shade match and finish individual rolls. Each roll in the lot shall be examined visually for shade match and finish. A roll shall be unacceptable if it fails to meet the requirements for shade match or finish. The sample unit shall be a 4 inch by 20 inch (10.2cm x50.8cm) swatch of the cloth. A sample unit shall be drawn from each roll in the lot.

Examination for defect marking (string of defects). The examination for defect marking shall be as specified in MIL-STD-655.

Roll examination. During the yd. by yd. examination each roll in the sample shall be examined for defects listed below. The lot shall be unacceptable if two or more of the defects are present in the sample:

Back stamp missing, incorrect or illegible from either or both ends bleed through occurring.

Back stamping on the wrong side.

Letters less than 1/2 inch in height.

Not labeled or ticketed in accordance with the Rules and Regulations under the Wool Products Labeling Act.

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Length examination. During the yard- by- yard examination, each roll in the sample shall be examined for length. Any lot found to be less than the minimum length specified in the basic cloth document or more than 2 yds. less than the length marked on the ticket shall be scored as a defect. The lot shall be unacceptable if two or more rolls in the sample are defective in respect to the length. The lot shall be unacceptable if the total of the actual length of the rolls in the sample is less than the total of the lengths marked on the roll tickets.

Label / marking. Each roll shall be labeled or ticketed for fiber content in accordance with the Wool Products Labeling Act.

Material 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 any wavy cloth; width more or less than specified (shall not be scored unless it occurs for more than (4.6m) per roll; thread ends not removed; not labeled in accordance with the Wool Products Labeling Act.

Yard- by- yard-by yard examination. The yard-by-yard examination shall be as specified in MIL-STD-655. The fabric quality shall be grade 10. Each roll shall be examined visually for shade match and finish. A roll shall be unacceptable if it fails to meet the requirements for shade match or finish. The sample unit shall be a 4 inch by 20 inch (10.2 cm x 50.8 cm) swatch of the cloth. A sample unit shall be drawn from each roll in the lot.

Preservation, Packing, and Marking.

Preservation, packing, and marking shall be as specification in the contract or order.

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

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Sources of Nongovernment Documents.

TECHNICAL MANUAL AMERICAN ASSOCIATION OF TEXTILE CHEMISTS  
AND COLORIST

(Applications for copies should be addressed to AATCC,  
P.O. Box 12215, Research Triangle Park, N.C. 27709)

AMERICAN SOCIETY FOR TESTING MATERIALS

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

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