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INCH-POUND

MIL-C-10176J
6 January 1989
SUPERSEDING
MIL-C-10176H
27 September 1974

MILITARY SPECIFICATION

CLOTH, GABARDINE: WOOL, POLYESTER AND WOOL

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers wool, polyester and wool gabardine cloths.

* 1.2 Classification. The cloth shall be of the following types and classes as specified (see 6.2).

Type I - Wool

Class 3	- 11.0 ounce
Class 5	- 14.5 ounce
Class 7	- 16.0 ounce
Class 8	- 13.0 ounce

Type II - Polyester and wool blend

Class 1	- 10.5 ounce
Class 8	- 9.5 ounce
Class 9	- 10.8 ounce
Class 10	- 13.0 ounce
Class 11	- 11.2 ounce
Class 12	- 10.6 ounce

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be used in improving this document should be addressed to: U.S. Army Natick Research, Development, and Engineering Center, Natick, MA 01760-5014 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A FSC 8305

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2. APPLICABLE DOCUMENTS

* 2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATIONS

FEDERAL

PPP-P-1132 - Packaging of Woolen, Worsted and Wool Blend (Synthetic Fiber; Cotton) Fabrics

MILITARY

MIL-C-43665 - Cloth, Wool: Mothproofing Treatment of

STANDARDS

FEDERAL

FED-STD-191 - Textile Test Methods

MILITARY

MIL-STD-655 - Provisions for Evaluating Quality of Cloth, Wool, Worsted and Wool Blends

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Naval Publications and Forms Center, (ATTN: NPODS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099.)

2.1.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this specification to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

FEDERAL TRADE COMMISSION

Rules and Regulations Under the Wool Products Labeling Act of 1939

(Copies may be obtained from the Federal Trade Commission, Pennsylvania Avenue at Sixth Street, N.W., Washington, DC 20580.)

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U.S. DEPARTMENT OF AGRICULTURE (USDA)

Methods of Test for Grades of Wool Top

(Copies may be obtained from the U.S. Department of Agriculture, Agricultural Marketing Service, Washington, DC 20402.)

* 2.2 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2).

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS (AATCC)

Chromatic Transference Scale

(Application for copies should be addressed to the American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709-2215.)

(Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services.)

* 2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 First article. When specified (see 6.2), a sample shall be subjected to first article inspection (see 6.3) in accordance with 4.3.

3.2 Standard sample. The finished cloth shall match the standard sample for shade and appearance and shall be equal to or better than the standard sample with respect to all characteristics for which the standard sample is referenced (see 6.4).

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3.3 Material.

3.3.1 Stock.

* 3.3.1.1 Grade. The wool for the cloth shall be not lower in grade than the U.S. Standard grades specified below for the applicable class, when tested as specified in 4.4.1.2.

Class 1 62's U.S. Standard

Class 3 62's U.S. Standard

Class 5 64's U.S. Standard

Class 7 62's U.S. Standard

Class 8 64's U.S. Standard

Class 9 64's U.S. Standard

Class 10 64's U.S. Standard

Class 11 64's U.S. Standard

Class 12 64's U.S. Standard

3.3.1.2 Type I cloth. The wool top for type I cloth shall be fleece or pulled wool, or both, not lower in grade than that specified for the applicable class (see 1.2 and 3.3.1.1). The use of wool top made from laps, noils, or any other wool manufacturing by-products is prohibited. The finished cloth shall contain not less than 95 percent wool based on the dry weight of the specimen when tested as specified in 4.4.4.

3.3.1.3 Type II cloth. The blend shall consist of fleece or pulled wool or both not lower in grade than that specified for the applicable class in 3.3.1.1 and polyester fiber in top or cut tow form in such proportion that the finished cloth shall contain not less than 40 percent wool and not less than 55 percent or more than 60 percent polyester fiber based on the oven-dry weight of the specimen when tested as specified in 4.4.4. The use of wool top produced from laps, noils, or any other wool manufacturing by-product is prohibited. The polyester fiber shall be semi-dull polyester fiber made from polyethylene glycol terephthalate either homopolymer or modified polymer as appropriate (see 4.4.1.1 and 6.7). The minimum average polyester fiber length shall be 3 inches (see 4.4.1.1) and suitable denier to blend adequately with the 62's or 64's Grade wool. The use of polyester fiber waste is prohibited.

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3.3.2 Yarn. The yarn for the warp and filling shall be spun from combed top on either the Bradford, French or American system. The warp and filling yarn for all types and classes shall be 2-ply (see 4.4.4). For type II cloth, the yarns for both warp and filling shall be a blend of the two fibers (see 6.7).

NOTE: Selvage yarn. To prevent edges of all types of cloth from building up when rolled, 2-ply yarns used in the selvages may be made of a finer count than those used in the body of the cloth.

3.4 Color. The color shall be as specified (see 6.2, and 6.5) and shall match the standard sample. The color of type I cloth shall be obtained by blending stock or top dyed wools; the color of type II cloth shall be obtained by blending top dyed wool with stock, top, or tow dyed polyester fibers, with the wool and polyester fibers dyed separately and then blended (see 6.6).

3.4.1 Mothproofing. Mothproofing of the wool material, in accordance with MIL-C-43665, shall be accomplished during stock or top dyeing as applicable.

* 3.4.2 Matching. The color of the dyed cloth shall match the standard sample when viewed under filtered tungsten lamps that approximate artificial daylight and that have a correlated color temperature of 7500 +/- 200 K, with illumination of 100 +/- 20 foot candles, and shall be a good match to the standard sample under incandescent lamplight at 2300 +/- 200 K.

* 3.4.3 Colorfastness. The finished cloth shall show fastness to wet drycleaning, perspiration, and light equal to or better than the standard sample or equal to or better than a rating of "good". For Air Force Blue 1549 and Army Green 44 the light exposure time for "good" fastness to light shall be 60 standard fading hours. The finished cloth shall show fastness to crocking equal to or better than the standard sample or shall have an AATCC Chromatic Transference Scale rating of not lower than 3.5. Testing shall be as specified in 4.4.4.

* 3.5 Physical requirements. The finished cloth shall conform to the requirements specified in table I when tested as specified in 4.4.4.

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TABLE I. Physical requirements

Type	Class	Weight per linear yard 56 in. width basis (ozs.) minimum	Yarns per inch minimum		Breaking strength (pounds) minimum		Shrinkage percent maximum	
			Warp	Filling	Warp	Filling	Warp	Filling
I	3	11.0	86	48	80	42	4.0	3.0
I	5	14.5	112	56	115	65	6.0	3.0
I	7	16.0	120	60	120	55	4.0	3.0
I	8	13.0	98	52	130	55	5.0	3.0
II	1	10.5	84	48	190	110	3.0	2.5
II	8	9.5	114	56	160	70	3.0	2.0
II	9	10.8	122	62	160	80	2.0	1.5
II	10	13.0	98	50	120	80	3.0	1.0
II	11	11.2	90	53	120	70	3.0	1.0
II	12	10.6	108	58	140	72	3.0	2.0

3.5.1 Width. The width of all types and classes of finished cloth shall be a minimum of 60 inches exclusive of the selvage.

* 3.6 Weave. The weave for the types and classes specified shall be as follows (see 4.4.3):

Type	Class	Weave
I	3	2/1 right twill
I	5	2/2 right twill
I	7	2/2 right twill
I	8	2/2 right twill
II	1	2/1 right twill
II	8	2/2 right twill
II	9	2/2 right twill
II	10	2/1 right twill
II	11	2/1 right twill
II	12	2/2 right twill

3.7 Finish. The cloth shall be scoured, brushed, sheared, pressed, and decated so as to provide a finish equal to that of the standard sample.

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3.7.1 Pilling. The type II cloth shall be singed and finished to show no more pilling than the standard sample when tested as specified in 4.4.4 (see 6.7.4).

3.7.2 pH. The pH value of the water extract of the finished cloth shall be no less than 5.5 nor more than 8.5 when tested as specified in 4.4.4.

* 3.8 Selvages. The selvages shall be so constructed that in the finished cloth they shall lie flat when the material is laid out for cutting.

3.9 Length and put-up. For Government procurement only, unless otherwise specified (see 6.2), the cloth shall be furnished in continous lengths, each not less than 50 yards. The cloth shall be put up on full width rolls as specified in 5.1.

3.10 Wool content label. Cloth manufactured under this specification shall be labeled in accordance with the Wool Products Labeling Act of 1939 (see 2.1.2).

3.11 Marking. The back of the cloth shall be marked "Back" at both ends of each roll with letters not less than 1/2 inch in height (see 4.4.3.3). The marking shall be clearly legible in any indelible marking medium used commercially.

* 3.12 Workmanship. The finished cloth shall conform to the quality established by this document. The demerit points per 100 square yards when calculated as specified in section 4 shall not exceed the established maximum point value. Each defect shall be marked with a 1 to 1-1/2 inch long string. The string shall be sewn into the selvage near the defect. A red string shall represent a three or four point defect and a white string shall represent a one or two point defect (see 4.4.3.5).

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

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* 4.1.1 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification 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. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.

4.1.2 Certificates of compliance. When certificates of compliance are submitted, the Government reserves the right to inspect such items to determine the validity of the certification.

4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:

a. First article inspection (see 4.3).
b. Quality conformance inspection (see 4.4).

4.3 First article inspection. When a first article is required (see 3.1 and 6.2), it shall be examined for appearance, color, and finish defects and shall be tested for the characteristics specified in table II. The presence of any defect or failure of any test shall be cause for rejection of the first article.

4.4 Quality conformance inspection. Unless otherwise specified, sampling for inspection shall be performed in accordance with MIL-STD-655.

4.4.1 Component and material inspection. In accordance with 4.1, components and materials shall be inspected in accordance with all the requirements of referenced documents unless otherwise excluded, amended, modified, or qualified in this specification or applicable purchase document.

4.4.1.1 Component and material certification. A certificate of compliance may be acceptable as evidence that the characteristics for the type II cloth listed below conform to the specified requirements.

Characteristic	Requirement paragraph
Polyester identification	3.3.1.3
Length of fiber	3.3.1.3

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* 4.4.1.2 Wool grade examination. The wool shall be examined for grade (see 3.3.1.1) in the undyed top form by comparison with the applicable wool standard (see 2.1). In the event of a dispute, the wool grade shall be determined by the width method (wedge). The sample unit shall be 1 yard of top, prior to dyeing and to blending with polyester fibers. The sample size shall be as shown below. The lot size shall be expressed in units of 1 pound. The results from each sample unit shall be reported separately. The lot shall be unacceptable if a single sample unit fails to meet the required grade.

Lot size (pounds)	Sample size (No. of sample units)
800 or less	2
801 up to and including 22,000	3
22,001 and over	5

4.4.2 In-process inspection. Inspection shall be made at any point or during any phase of the manufacturing process to assure that no noils or wool top made from laps and only approved wools and polyester fibers, in the amount specified are used, and that the dyeing and singeing requirements have been adhered to (see 3.4 and 3.7.1). The Government reserves the right to exclude from consideration for acceptance any material for which in-process inspection has indicated nonconformance.

4.4.3 End item examination.

* 4.4.3.1 Yard-by-yard examination. The yard-by-yard examination shall be as specified in MIL-STD-655. The fabric quality for all shades except Tan 3729 shall be Quality Level 10. For Tan 3729 the fabric quality shall be Quality Level 12.

* 4.4.3.1.1 Limits of slubs and knots. Only slubs and knots which exceed "D" for slubs and "C" for knots on the Sears Fabric Defect Scale (see 6.8) shall be scored.

* 4.4.3.2 Shade variation examination. The shade variation examination shall be as specified in MIL-STD-655.

* 4.4.3.3 Length examination. The length examination shall be as specified in MIL-STD-655.

* 4.4.3.4 Roll examination. The roll examination shall be as specified in MIL-STD-655.

* 4.4.3.5 Shade match and finish examination. A 4-inch by 20-inch swatch shall be drawn from each roll in the lot and examined visually for shade match and finish. Any swatch failing to meet the shade match requirement in 3.4.2 and the finish requirement in 3.7 shall be cause for rejection of the roll from which the swatch was drawn.

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* 4.4.3.6 Defect marking (stringing of defects) examination. The defect marking examination shall be as specified in MIL-STD-655.

4.4.4 End item testing. The methods of testing specified in FED-STD-191 wherever applicable and as listed in table II shall be followed. The physical and chemical values specified in section 3 apply to the results of the determinations made on a sample unit for test purposes as specified in the applicable test method. The sample unit shall be 3 continuous yards, full width, of the finished cloth. The lot size shall be expressed in units of 1 yard. The lot shall be unacceptable if one or more sample units fail to meet any test requirement specified. All test reports shall contain the individual values utilized in expressing the final results. The sample size shall be in accordance with the following:

Lot size (yards)	Sample size (No. of sample units)
800 or less	2
801 up to and including 22,000	3
22,001 and over	5

TABLE II. Test method

Characteristic	Requirement paragraph	Test method
Fiber percentage:		
Type I	3.3.1.2	2101
Type II	3.3.1.3	2102
Yarns ply:		
Warp	3.3.2	Visual 1/
Filling	3.3.2	Visual 1/
Moth proofing	3.4.1	2/
Colorfastness:		
Wet drycleaning	3.4.3	5622
Crocking	3.4.3	5651
Light	3.4.3	5660
Perspiration	3.4.3	5680
Weight	3.5	5041
Yarns per inch:		
Warp	3.5	5050
Filling	3.5	5050

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TABLE II. Test method (cont'd)

Characteristic	Requirement paragraph	Test method
Breaking strength:		
Warp	3.5	5100
Filling	3.5	5100
Shrinkage:		
Warp	3.5	5558
Filling	3.5	5558
Weave	3.6	Visual 1/
Pilling (type II)	3.7.1	5320 3/
pH	3.7.2	2811

1/ One determination per sample unit and the results reported as "pass" or "fail".

2/ The test for percent mothproofing compound shall be as specified in MIL-C-43665. For type II cloth, the percent mothproofing compound shall be determined and calculated using the procedure for specimens containing 100 percent wool.

3/ The pilling test shall be conducted in accordance with Method 5320 except that five specimens of the test cloth and one specimen of the standard sample shall be used concurrently. The pilling of the test specimens shall be evaluated against that exhibited by the standard sample and all specimens shall be equal to or better than the standard sample. Failure of any one of the test specimens shall be cause for rejection.

4.4.4 Packaging inspection. The inspection shall be in accordance with the quality assurance provisions of PPP-P-1132.

* 5. PACKAGING

5.1 Put-up and preservation. Put-up and preservation shall be level A or Commercial as specified (see 6.2).

5.1.1 Levels A and Commercial. The cloth shall be put-up and preserved in accordance with the applicable requirements of PPP-P-1132.

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5.2 Packing. Packing shall be level A, B, or Commercial as specified (see 6.2).

5.2.1 Levels A, B, and Commercial. The cloth shall be packed in accordance with the applicable requirements of PPP-P-1132.

5.3 Marking. In addition to any special marking required in the contract or purchase order, shipments shall be marked in accordance with the applicable requirements of PPP-P-1132.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The cloth is intended for use in the manufacture of clothing items for personnel of the Department of Defense.

6.2 Acquisition requirements. Acquisition documents must specify the following:

a. Title, number, and date of this specification.
b. Type and class of cloth required (see 1.2).
c. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1 and 2.2).
d. When first article is required (see 3.1, 4.3, and 6.3).
e. Color (see 3.4).
f. Minimum length if other than required (see 3.9).
g. Levels of preservation and packing (see 5.1 and 5.2).

6.3 First article. When a first article is required, it shall be inspected and approved under the appropriate provisions of FAR 52.209. The first article should be a preproduction sample. The contracting officer should specify the appropriate type of first article and the number of units to be furnished. The contracting officer should also include specific instructions in acquisition documents regarding arrangements for selection, inspection, and approval of the first article.

6.4 Sample. For access to samples, address the contracting activity issuing the invitation for bids.

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6.5 Suggested dyestuff formulations. Suggested but not mandatory dyestuff formulations for Army Green 44, Army Green 344, Shade Tan 3729, Army Blue 150, Army Blue 151, Taupe 79, Dark Blue 2316, Light Blue 2317, Army Blue 450 and Army Blue 451 are as follows:

Wool components, Army Green 44 or 344

Acid Green 58
Acid Green 70
Acid Orange 85
Acid Orange 86

The ratio of Acid Green 58 to Acid Green 70 shall be approximately 1 to 1.

Polyester component Army Green 344

or

#1	#2
Disperse Blue 62	Disperse Blue 27, CI 60767
Disperse Yellow CI 26072	Disperse Yellow 42, CI 10338
Disperse Red 59	Disperse Red 4, CI 60755
Disperse Violet 18	Disperse Yellow 23, CI 26074

Wool component Tan 3729

Acid yellow 128
Neutral Premetallized Olive Green B
Acid Brown 45
Acid Red 182

Polyester component Tan 3729

Disperse Yellow CI 26072
Disperse Blue 64
Disperse Blue GR
Disperse Red 4, CI 60755

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Army Blue 150

Slate primary:

Mordant Blue 9, CI 14855
Mordant Blue 13, CI 16680
Acid Black 48, CI 65005

Red-Blue Primary:

Mordant Blue 9, CI 14855
Mordant Blue 13, CI 16680
Acid Black 48, CI 65005
Mordant Orange 8

Blue Primary:

Mordant Blue 13, CI 16680
Acid Black 48, CI 65005

Army Blue 151

Red Primary:

Acid Blue 80, CI 61585
Acid Blue 81, CI 64515
Mordant Red 7, CI 18760

Blue Primary:

Acid Blue 80, CI 61585
Mordant Blue 7, CI 17940
Mordant Blue 13, CI 16680

Green Primary:

Sol. Vat Blue 1, CI 73002
Sol. Vat Violet 2, CI 73386

Taupe 79

Acid Black 60
Acid Brown 36
Acid Black 138
Acid Orange 85
Acid Brown 28

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It is suggested, but not mandatory, that Chrome dyes be used when Dark Blue 2316 is specified and a combination of Vat, Indigo and Chrome dyes be used for Light Blue 2317.

Wool-Polyester-Army Blue 450

Wool Components
Slate Primary:

Mordant Blue 9, CI 14855
Mordant Blue 13, CE 16680
Acid Black 48, CI 65005

Red-Blue Primary:

Mordant Blue 9, CI 14855
Mordant Blue 13, CI 16680
Acid Black 48, CI 65005
Mordant Orange 8

Blue Primary:

Mordant Blue 13, CI 16680
Acid Black 48, CI 65005

Polyester Components

Disperse Developed Black DC
Disperse Developed Blue 64
Disperse Developed Blue BL
Disperse Developed Orange 3, CI 11005

Wool-Polyester-Army Blue 451

Wool Components
Red Primary:

Acid Blue 80, CI 61585
Acid Blue 81, CI 64515
Mordant Red 7, CI 18760
Mordant Orange 8

Blue Primary:

Acid Blue 80, CI 61585
Mordant Blue 7, CI 17940
Mordant Blue 13, CI 16680

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Green Primary:

Sol. Vat Blue 1, CI 73002
Sol. Vat Violet 2, CI 73386

Polyester Components

Disperse Blue 59
Disperse Blue 63
Disperse Blue 60
Disperse Orange 21

6.6 Effect of dyeing wool and synthetic fibers simultaneously. The dyeing of the wool and the synthetic fibers together in a single operation is undesirable because of the tendency to lower colorfastness and the chance that the degree of colorfastness exhibited by the standard sample cannot be met (see 3.4).

6.7 Notes of caution to manufacturers.

6.7.1 Polyester fiber type. The choice of the polyester fiber type should be made by the contractor for a minimum pilling tendency and the fiber which will meet the colorfastness level of the document (see 3.3.1.3 and 3.4.3).

6.7.2 Fiber length. The longest staple length commensurate with the staple of the wool, with proper twist multipliers to prevent pilling, should be used in the manufacture of this cloth (see 3.3.1.3).

6.7.3 Twist in the yarns. The twist in the yarns for both the singles and the ply should be such that the polyester fibers will be so locked within the yarn structure that migration in subsequent processing and in the weaving of the cloth will not form pills (see 3.3.2).

6.7.4 Pilling, type II. The cloth should be closely singed in order to minimize the amount of pilling (see 3.7.1).

* 6.8 Fabric defect scales. Fabric Defect Replica Kits are available from Sears Roebuck and Company, Department 817, (ATTN: BSC 23-29), Sears Tower, Chicago, IL 60684.

* 6.9 Subject term (key word) listing.

Mothproofing
Uniform

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6.10 Changes from previous issue. The margins of this document are marked with an asterisk (*) to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only, and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content, as written, irrespective of the marginal notations and relationship to the last previous issue.

Custodians:

Army - GL
Navy - NU
Air Force - 11

Review activities:

Army - MD
Navy - MC
Air Force - 82, 99

Preparing activity:

Army - GL

(Project 8305-0232)

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NOTE. This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification 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.

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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions – Reverse Side)

1. DOCUMENT NUMBER	2. DOCUMENT TITLE
MIL-C-10176J	Cloth, Gabardine: Wool, Polyester and Wool

3a. NAME OF SUBMITTING ORGANIZATION	4. TYPE OF ORGANIZATION *(Mark one)*
	☐ VENDOR
	☐ USER
b. ADDRESS *(Street, City, State, ZIP Code)*	☐ MANUFACTURER
	☐ OTHER *(Specify)* _____

5. PROBLEM AREAS

a. Paragraph Number and Wording

b. Recommended Wording

c. Reason/Rationale for Recommendation

6. REMARKS

7a. NAME OF SUBMITTER *(Last, First, MI)* – Optional	b. WORK TELEPHONE NUMBER *(Include Area Code)* – Optional
c. MAILING ADDRESS *(Street, City, State, ZIP Code)* – Optional	8. DATE OF SUBMISSION *(YYMMDD)*

FORM MAR 1426 PREVIOUS EDITION IS OBSOLETE

NATICK OP-1, Feb 86