

INCH-POUND

MIL-C-44423(GL)
30 July 1991

MILITARY SPECIFICATION

CLOTH, COATED, FLAME RESISTANT, LIGHT WEIGHT, REVERSIBLE

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

1. SCOPE

1.1 Scope. This specification covers a flame resistant, light weight, reversible, coated cloth.

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

- Class 1 - Camouflage Green 483 face with Camouflage Green 483 back
- Class 2 - Desert Tan 459 face with Camouflage Green 483 back
- Class 3 - White face with Camouflage Green 483 back

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 issue 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).

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 01760-5019 by using the Standardization Documents 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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SPECIFICATIONS

FEDERAL

- PPP-P-1136 - Packaging of Coated (Plastic; Rubber) and Laminated Fabrics

STANDARDS

FEDERAL

- FED-STD-101 - Test Procedures for Packaging Materials
FED-STD-191 - Textile Test Methods

MILITARY

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-1487 - Glossary of Cloth Coating Imperfections

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

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

FEDERAL TRADE COMMISSION

Rules and Regulations Under the Textile Fiber Products Identification Act

(Copies are available from the Federal Trade Commission, Pennsylvania Avenue at Sixth Street, N.W., Washington, DC 20580-0001.)

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 issues of the DODISS specified 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)

Gray Scale for Color Change

- AATCC Method 119 - Color Change Due to Flat Abrasion (Frosting):
Screen Wire Method

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AATCC Method 169 - Weather Resistance of Textiles: Xenon Lamp Exposure

(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.)

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- D 523 - Specular Gloss
- D 1424 - Tear Resistance of Woven Fabrics by the Falling-Pendulum (Elmendorf) Apparatus
- D 5034 - Breaking Force and Elongation of Textile Fabrics (Grab Test)

(Applications for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103-1187.)

(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 coated 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).

3.3 Material. It is encouraged that recycled material be used when practical as long as it meets the requirements of this specification.

3.3.1 Base cloth. The base cloth shall consist of regular or high tenacity nylon or polyester. The size of the yarn and construction of the cloth shall be so selected that the finished cloth meets the requirements specified in table I.

3.3.2 Coating. The coating compound shall be formulated so that when applied to the base cloth specified in 3.3.1, the coated cloth meets the

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requirements specified in 3.4. Only phosphate and phthalate ester plasticizers shall be used. The coating compound shall be approved (see 6.5).

3.4 Coated cloth. The base cloth specified in 3.3.1 shall be coated on both sides with coating compound specified in 3.3.2. The coated cloth shall conform to all the requirements specified in table I and table II, when tested as specified in 4.4.3.

TABLE I. Physical requirements

Characteristic	Minimum	Maximum
Weight, oz/sq. yd.	5.0	7.0
Breaking strength, lbs.:		
Warp	175	---
Filling	150	---
Tearing strength, lbs.:		
Warp	5.5	---
Filling	5.5	---
Adhesion of coating, lbs/2-inch width:		
Face side	8.0	---
Back side	8.0	---
Water permeability:		
Initial	no leakage 1/	---
After cold crack	no leakage 1/	---
After flexing	no leakage 1/	---
After weathering	no leakage 1/	---
Flame resistance:		
Initial and after weathering:		
After-flame time, seconds:		
Warp	---	2.0
Char length, inches:		
Warp	---	6.0
Melt drip:		
Warp	2/	---
Stiffness, cm (warp only):		
Initial	---	10.0
At -20°F	---	15.0
Blocking, scale rating	---	2.0

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TABLE I. Physical requirements (cont'd)

Characteristic	Minimum	Maximum
Abrasion resistance, class (face and back)	2.5	---
Gloss, percent, face and back:		
60 degrees	---	4.0
85 degrees	---	4.0

1/ Leakage is defined as the appearance of water at more than three places within the 4-1/2 inch diameter test area.

2/ No specimen shall drop flaming, melted, or molten pieces at any time during the test.

3.4.1 Resistance to accelerated weathering. The coated cloth shall not show a color change worse than "fair", cracking, crazing, blooming, or tackiness when tested for resistance to accelerated weathering as specified in 4.4.3.

3.4.2 Resistance to cold cracking. The coated cloth shall not crack when tested as specified in 4.4.3.

3.4.3 Color. The color of the cloth shall be as follows: Class 1, Camouflage Green 483 face side and Camouflage Green 483 back side; Class 2, Desert Tan 459 face side and Camouflage Green 483 back side; Class 3, White face side and Camouflage Green 483 back side.

3.4.3.1 Matching. The color of both sides of the finished 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.

3.4.4 Spectral reflectance. Both sides of the coated cloth shall conform to the applicable spectral reflectance requirements specified in table II when tested as specified in 4.4.3.

TABLE II. Spectral reflectance limits for Camouflage Green 483, Desert Tan 459, and White

Wavelength (nanometers)	Camouflage Green 483		Desert Tan 459		White	
	Min	Max	Min	Max	Min	Max
600	5	12	---	---	60	87
620	5	12	---	---	60	87

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TABLE II. Spectral reflectance limits for Camouflage Green 483, Desert Tan 459, and White (cont'd)

Wavelength (nanometers)	Camouflage Green 483		Desert Tan 459		White	
	Min	Max	Min	Max	Min	Max
640	5	12	--	--	60	87
660	5	13	--	--	60	87
680	6	15	--	--	60	87
700	9	21	25	58	61	87
720	15	30	25	59	64	87
740	24	42	25	61	67	87
760	32	50	26	62	70	87
780	38	56	27	63	71	87
800	41	60	28	64	71	87
820	43	63	30	66	71	87
840	45	65	33	68	71	87
860	46	66	36	69	71	87

3.5 Width. The minimum width, exclusive of selvages, shall be as specified (see 6.2). All selvages shall be trimmed from the coated cloth.

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

3.7 Length and put-up. Unless otherwise specified (see 6.2), the cloth shall be in continuous pieces, each not less than 40 yards in length and shall be put-up in rolls in accordance with 5.1.

3.8 Workmanship. The coated cloth shall conform to the quality established by this specification.

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.

4.1.1 Responsibility for compliance. All items shall 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

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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 accept 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 3.2 and 6.2), it shall be examined as specified in 4.4.2 and tested as specified in 4.4.3.

4.4 Quality conformance inspection. Unless otherwise specified, sampling for inspection shall be performed in accordance with MIL-STD-105.

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 document or applicable purchase document.

4.4.2 End item examination.

4.4.2.1 Yard-by-yard examination. The cloth shall be examined for the defects listed in table IV. Each roll in the sample shall be examined only on one side, however, the side shall be alternated on every other roll examined. All of the sample yardage shall be given a through-lighting inspection for pinholes and for areas of missing film. The through-lighting equipment shall be as specified in MIL-STD-1487. All defects found shall be counted regardless of their proximity to each other except where two or more defects represent a single local condition, in which case only the more serious defect shall be counted. A continuous defect shall be counted as one defect for each warpwise yard or fraction thereof in which it occurs. The lot size shall be expressed in yards. The sample unit shall be 1 linear yard. The inspection level shall be III and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 4.0 for major defects and 10.0 for total (major and minor combined) defects. The number of rolls from which the sample yardage is to be selected shall be in accordance with table III. The sample yardage shall be apportioned equally among the selected rolls.

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TABLE III. Sample size

Lot size (yards)	Sample size (rolls)	Acceptance number
1,200 or less ^{1/}	3	0
1,201 up to and including 3,200	5	0
3,201 up to and including 10,100	8	0
10,001 up to and including 35,000	13	0
35,001 up to and including 150,000	20	1
150,001 and over	32	2

^{1/} If the lot contains fewer than three rolls, each roll in the lot shall be examined.

TABLE IV. Yard-by-yard examination

Defect	Classification	
	Major	Minor
Any cut, hole, tear, scratch, or abrasion mark	101	
Any pinhole	102	
Any thinly coated or uncoated area	103	
Any blister, tunnel, or delamination of coating	104	
Any lump or heavily coated area		201
Crease or wrinkle that cannot be corrected by manual pressure or resulting in doubling or adhesion of surfaces	105	
Any spot, stain, or streak more than 1 inch in its longest dimension	106	
Any embedded foreign matter		202
Any scorch or burn	107	
Any color off shade, not uniform, mottled, spotted, or streaky	108	
Tackiness (coating will adhere to itself, and will not readily unroll)	109	
Edges not straight and uniform		203
Selvages not trimmed		204
Trimmed width less than minimum specified	110	
Objectionable odor (odors of chemicals commonly used in coating compounds shall not be regarded as objectionable)		205

4.4.2.2 Length examination. During the yard-by-yard 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. The lot shall be rejected 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 the lengths marked on the roll tickets.

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4.4.2.3 Roll identification examination. During the yard-by-yard examination, each roll in the sample shall be examined for proper identification. The lot shall be unacceptable if two or more rolls in the sample are not labeled or ticketed in accordance with the Textile Fiber Products Identification Act.

4.4.3 End item testing. The cloth shall be tested for the characteristics listed in table V. The methods of testing specified in FED-STD-191, wherever applicable, and as listed in table V shall be followed. The values specified in section 3 apply to the average of determinations made on a sample unit for test purposes as specified in the applicable test method. For tests reported as pass or fail, the requirement shall apply to each determination separately and there shall be no evidence of failure of any test specimen to meet the requirement. All test reports shall contain the individual values utilized in expressing the final results. The sample unit shall be 5 yards full width of the coated cloth. The lot shall be unacceptable if one or more sample units fail to meet any requirement specified. The sample size shall be in accordance with the following:

<u>Lot size (yards)</u>	<u>Sample size (sample units)</u>
800 or less	2
801 up to and including 22,000	3
22,001 and over	5

TABLE V. End item tests

<u>Characteristic</u>	<u>Requirement</u>	<u>Test method</u>
Weight	3.4	5041
Breaking strength	3.4	ASTM D 5034
Tearing strength	3.4	ASTM D 1424
Adhesion of coating	3.4	5970 <u>1</u> /
Water permeability:		
Initial	3.4	5516 <u>2</u> /
After cold crack	3.4	5874 <u>3</u> / and 5516 <u>2</u> /
After flexing	3.4	4.5.1 and 5516 <u>2</u> /
After weathering	3.4	4.5.2 and 5516 <u>2</u> /
Flame resistance:		
Initial	3.4	5903 <u>4</u> /
After weathering	3.4	4.5.2 and 5903 <u>4</u> /
Stiffness:		
Initial	3.4	5204 <u>5</u> /
At -20°F	3.4	5204 <u>5</u> / <u>6</u> /
Blocking	3.4	5872
Abrasion resistance	3.4	4.5.3

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TABLE V. End item tests (cont'd)

Characteristic	Requirement	Test method
Gloss (face and back)	3.4	ASTM D 523
Resistance to accelerated weathering	3.4.1	4.5.2
Resistance to cold cracking	3.4.2	5874 3/
Spectral reflectance	3.4.4	4.5.4

- 1/ Three specimens shall be tested by adhering face-to-face and three specimens shall be tested by adhering back-to-back.
- 2/ Minimum dimensions of the specimen shall be 6 inches by 6 inches. The face side of the coated cloth shall contact the water. The hydrostatic head shall be 50 centimeters and shall be held for 3 minutes. The appearance of water at more than three places within the 4-1/2 inch diameter test area shall be a failure of the test specimen.
- 3/ Except that exposure temperature shall be $-40 \pm 5^{\circ}\text{F}$ and the exposure time shall be a minimum of 2 hours. The face side of the cloth shall be to the outside of the folds.
- 4/ Except that five specimens shall be tested in the warp direction only. In addition to after-flame time and char length, any evidence of flaming, melted or molten pieces dropping from the specimen at any time during the test shall be reported.
- 5/ Except that five specimens shall be tested in the warp direction only.
- 6/ The specimens shall be placed between glass plates. The specimen/plate assembly and the test instrument shall be conditioned at -20°F for a minimum of 2 hours. The test shall be run at -20°F .

4.4.4 Packaging inspection. The inspection shall be in accordance with the quality assurance provisions of PPP-P-1136.

4.5 Methods of inspection.

4.5.1 Water permeability after flexing. Two 8-inch by 12-inch specimens shall be cut with the 12-inch dimension parallel to the warp direction. Each specimen shall be flexed as specified in Method 2017 of FED-STD-101 except that the specimen shall not be aged, the short edges shall not be heat sealed or otherwise joined, the specimen shall be mounted with the face side to the inside of the cylinder, and shall be flexed for 100 cycles. After flexing, the specimen shall be cut in half to form two 6-inch by 8-inch pieces. Three of the four pieces shall be tested for water permeability in accordance with Method 5516.

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4.5.2 Accelerated weathering procedure. The test procedure shall be in accordance with AATOC Method 169 except that the following deviations shall apply:

- a. The test apparatus shall be either test chamber type 1A or 1B. Type 1B shall be equipped with a three-tiered inclined specimen rack. The apparatus shall be equipped with an automatic light monitor and shall be capable of automatically controlling irradiance, temperature, and humidity. The apparatus shall be maintained in accordance with the manufacturer's recommendations.
- b. The weathering test cycle shall be 40 minutes of light, 20 minutes of light with water spray on the fabric face, 60 minutes of light, 60 minutes of darkness. The test cycle shall be repeated until the total energy exposure is equal to 100 kilojoules per square meter.
- c. The irradiance level shall be 0.55 ± 0.01 watt/square meter/nanometer (W/sq m/nm) bandpass at 340 nanometers.
- d. The glass filter combination shall be a quartz inner filter and a borosilicate type "S" outer filter.
- e. The relative humidity shall be 50 ± 5 percent during the light cycle and not lower than 95 percent during the dark cycle.
- f. The control set points shall be as follows:

	<u>Dark cycle</u>	<u>Light cycle</u>
Black panel	38°C	77°C
Conditioning water	40°C	53°C
Wet bulb depression <u>1/</u>	0°C	10°C

1/ As a guide only; adjust to achieve required relative humidity (see e. above).

g. The test specimens shall fit smoothly on the specimen rack of the apparatus with no wrinkles or gaps. The test specimen shall be mounted on the outside of the rack with the use of appropriate stainless steel spring clips (see 6.8). After the required exposure period, the specimens shall be removed from the apparatus and allowed to dry and condition at Standard Conditions. Then test specimens for each required test shall be cut and tested appropriately.

NOTE: Monitoring of dry bulb temperature, wet bulb depression, irradiance, and black panel temperature is recommended through the use of chart recorders.

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4.5.3 Abrasion resistance. The abrasion shall be in accordance with Method 5302 of FED-STD-191 except that three specimens shall be tested on the face side and three specimens shall be tested on the back side. The abradant shall be the respective face or back side of the coated cloth. Each specimen shall be abraded for 1,000 multidirectional cycles. After abrading, the specimens shall be evaluated for color change in accordance with AATCC Method 119, using the Gray Scale for Color Change. The class rating shall be averaged and then rounded to the nearest 0.5.

4.5.4 Spectral reflectance. Spectral reflectance data for Camouflage Green 483 and White shall be obtained from 600 to 860 nanometers (nm) while data for Desert Tan 459 shall be obtained from 700 to 860 nm, at 20 nm intervals on a spectrophotometer (see 6.6) relative to a barium sulfate standard, the preferred white reference standard. Other white reference materials may be used, provided they are calibrated to absolute white; e.g., Halon, magnesium oxide, or vitrolite tiles (see 6.7). The spectral bandwidth at 860 nm shall be less than 26 nm. Reflectance measurements shall be made by either the monochromatic or polychromatic mode of operation. When the polychromatic mode is used, the spectrophotometer shall operate with the specimen diffusely illuminated with the full emission of a continuous source that simulates in the visible spectrum either CIE Source A or CIE Source D65. The specimen shall be measured as a single layer backed with two layers of the same fabric and shade. Readings shall be taken on a minimum of two different areas, and the data averaged. The specimen shall be viewed at an angle no greater than 10 degrees from normal, with the specular component included. Photometric accuracy of the spectrophotometer shall be within 1 percent and wavelength accuracy within 2 nm. The standard aperture size used in the color measuring instrument shall be 1.0 to 1.25 inches in diameter. Any color having spectral reflectance values outside the limits at four or more of the wavelengths specified in table II shall be considered a test failure.

5. PACKAGING

5.1 Put-up and perservation. 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-1136.

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

5.2.1 Levels A, B, or Commercial. The cloth shall be packed in accordance with the applicable requirements of PPP-P-1136.

5.3 Marking. In addition to any special marking required in the contract or purchase order, shipments shall be marked in accordance with the requirements of PPP-P-1136.

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6. NOTES

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

6.1 Intended use. This cloth is intended for use in the tent body and fly of the Five Soldier Crew Tent.

6.2 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number, and date of this specification.
- b. Class of cloth required (see 1.2).
- c. Issue of DODISS to be cited in the solicitation, and if required, specific issue of individual documents referenced (see 2.1.1 and 2.2).
- d. When a first article is required (see 3.1, 4.3 and 6.3).
- e. Width of cloth required (see 3.5).
- f. Length required, if other than specified (see 3.7).
- g. Levels of preservation and packaging (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 include specific instructions in all acquisition instruments regarding arrangements for selection, inspection, and approval of the first article.

6.4 Standard sample. For access to standard sample, address the contracting activity issuing the invitation for bids or request for proposal.

6.5 Coating compound formula approval. Approval of coating compound formulations is the responsibility of the U.S. Army Natick Research, Development, and Engineering Center, Natick, MA 01760-5019. Coating compound formulation approval is based on extensive tests including those for toxicity which are not set forth in this specification. Because of the time required to evaluate and approve new coating compounds (approximately 6 months), only those coating compounds already approved will be considered acceptable for the related procurement. Information pertaining to approval of new coating compounds should be obtained from the U.S. Army Natick Research, Development, and Engineering Center. The list of approved coating compounds may be obtained from the contracting activity.

6.6 Spectrophotometers. Suitable spectrophotometers for measuring spectral reflectance in the visible/near infrared include the Diano Hardy, Diano Match Scan, Milton roy Match Scan 2, Hunter D54P-IR, Applied Color Systems Spectro Sensor I & II and CS-5, Hunter VIS/NIR Spectrophotometer, and Macbeth 1500 with IR option.

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6.7 White standard. Barium sulfate of suitable quality for use as a white reference standard is available from the Eastman Kodak Company. The same source has available magnesium reagent (ribbon) and Halon. Suitable tiles can be obtained from the National Institute of Standards and Tolerances or the instrument manufacturers.

6.8 Clips. Stye 2235-4E stainless steel spring clips have been found appropriate for securing the fabric to the rack and are available from the John F. Maguire Company, Inc., 121 Bacon Street, Pawtucket, RI 02860.

6.9 Subject term (key word) listing.

Five Soldier Crew Tent
Tentage

Custodian:

Army - GL

Review activities:

Army - MD
DLA - CT

Preparing activity:

Army - GL

(Project 8305-0441)

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.

1. RECOMMEND A CHANGE:		1. DOCUMENT NUMBER MIL-C-44423(GL)	2. DOCUMENT DATE (YYMMDD) 1991 July 30
3. DOCUMENT TITLE CLOTH, COATED, FLAME RESISTANT, LIGHT WEIGHT, REVERSIBLE			
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)	e. DATE SUBMITTED (YYMMDD)
8. PREPARING ACTIVITY			
a. NAME U.S. Army Natick RD&E Center		b. TELEPHONE (Include Area Code) (1) Commercial 508-651-4532 (2) AUTOVON/DSN 256-4532	
c. ADDRESS (Include Zip Code) Commander, U.S. Army Natick RD&E Center ATTN: STRNC-IRT Natick, MA 01760-5019		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	