

INCH- POUND

MIL-C-24500A(SH)

26 March 1990

SUPERSEDING

MIL-C-24500(SHIPS)

24 May 1974

(See 6.9)

MILITARY SPECIFICATION

CLOTH, DRAPERY, BUNK CURTAIN, SLIPCOVERS, AND LABELS, FIRE RETARDANT

This specification is approved for use by the Naval Sea Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification establishes the requirements for two types of inherently fire-safe, shrink safe, woven cloths and labels for various shipboard applications.

1.2 Classification.

1.2.1 Types. Cloth covered by this specification shall be of the following types, as specified (see 6.2):

Type I - Fire retardant organic fibers or blended organic fiber material.

Type II - Highly fire retardant inorganic fiber material.

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).

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Naval Sea Systems Command, SEA 5523, Department of the Navy, Washington, DC 20362-5101 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

MIL-C-24500A(SH)

SPECIFICATIONS

FEDERAL

- PPP-F-320 - Fiberboard: Corrugated and Solid, Sheet Stock (Container Grade) and Cut Shapes.
- PPP-P-1133 - Packaging of Synthetic Fiber Fabrics.

MILITARY

- MIL-L-19140 - Lumber and Plywood, Fire-Retardant Treated.

STANDARDS

FEDERAL

- FED-STD-4 - Glossary of Fabric Imperfections.
- FED-STD-191 - Textile Test Methods.
- FED-STD-313 - Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities.

MILITARY

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.
- MIL-STD-1623 - Fire Performance Requirements and Approved Specifications for Interior Finish Materials and Furnishings (Naval Shipboard Use).
- MIL-STD-2073-1 - DOD Material Procedures for Development and Application of Packaging Requirements.

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Standardization Documents Order Desk, Bldg. 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.

DEPARTMENT OF TRANSPORTATION (DOT)

Code of Federal Regulations (CFR) 29, Parts 1900 through 1910 - Occupational Safety and Health Standards.

(Copies may be obtained from the Department of Transportation Secretary, Office of Information, 400 7th Street SW, Washington, DC 20590.)

FEDERAL TRADE COMMISSION PUBLICATION

Textile Fiber Products Identification Act

(Copies may be obtained from the Federal Trade Commission, 6 Pennsylvania Avenue, Washington, DC 20580.)

MIL-C-24500A(SH)

2.2 Non-Government publications. The following document(s) 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)
AATCC Color Transference Chart

(Copies may be obtained from the American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.)

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
D 578 - Standard Specification for Glass Fiber Yarns.
D 3951 - Standard Practice for Commercial Packaging. (DoD adopted)

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

(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 6.4) in accordance with 4.3.

3.1.1 Standard sample. When a standard sample is available the cloth shall match the sample with respect to all characteristics for which the standard sample is referenced (see 6.5).

3.2 Material.

3.2.1 Fibers.

3.2.1.1 Type I organic fibers. Organic fibers used in the construction of the cloth shall be permanently fire retardant (PFR) rayon, polyaramid, or any other inherently fire-safe organic fiber or organic fiber blends provided that the cloth woven from the fiber or fiber blends meets all of the requirements of this specification and is consistent with the intended end use application (see 6.1).

3.2.1.2 Type II coated inorganic fibers. Only "C" filament fibrous glass fibers shall be used.

3.2.2 Yarns. Either singles or plied yarns may be used for both type I and type II warp and filling.

MIL-C-24500A(SH)

3.2.3 Prohibited fibers. Neither asbestos nor ceramic (refractory) fibers nor material containing any of these fibers shall be used in either type I or type II cloth (see 6.3).

3.3 Weave. Unless otherwise specified (see 6.2), the woven cloth shall be opaque or translucent as required.

3.4 Color. The color and shade of the finished cloth shall approximate the standard sample when available. When a standard sample is not available, the color and shade shall approximate the first article sample which has been approved by the contracting officer as conforming to the desired color and shade (see 6.2).

3.4.1 Colorfastness. The colorfastness of the cloth to light, wet and dry crocking, heat aging and laundering, shall be as follows:

3.4.1.1 Light. The cloth shall show "good" (AATCC gray scale class 4 or better) colorfastness to light after 20.0 standard fading hours when tested (see 4.5).

3.4.1.2 Crocking (wet and dry). The cloth shall show a rating of "good" (Munsell Value 8.5 (min)) or numerically rating of 3.0 (good or better). AATCC color transference chart, when using white crock cloth and tested (see 4.5).

3.4.1.3 Heat ageing. The cloth shall show "good" (AATCC gray scale class 4 or better) colorfastness to heat after 7 days of exposure when tested (see 4.5.1).

3.4.1.4 Laundering. The cloth shall show no less than class "3.5" (moderate) colorfastness to laundering when tested (see 4.5) and rated in accordance with AATCC gray scale for evaluating change in color.

3.4.2 Unavailability of a standard sample. When no standard sample has been established or designated as applicable to colorfastness, the dyed and finished cloth shall show "good" colorfastness to laundering (after 5 cycles), fastness to light after 20 hours exposure shall show a Munsell Value for crocking in accordance with AATCC color transference chart of not less than 8.5 (see 4.5).

3.4.3 Odor. The material shall have no objectionable odor. When tested the odor concentration shall be 10 or less (see 4.5).

3.5 Finish. The finish shall be type I or II as follows:

3.5.1 Finish (type I). The finish shall approximate that of the standard sample when available. When a standard sample is not available, the finish shall approximate that of the first article sample which has been approved by the contracting officer as conforming to the desired finish.

3.5.2 Finish (type II). A fire retardant, polymeric coating shall be applied to the face and back surfaces of the base cloth to increase the abrasion resistance of the base fabric and shall not exceed 20 percent of the total weight of the coated cloth (see 6.3). The halogen content of the coated cloth shall not exceed 1.75 percent of the total weight of the coated cloth.

MIL-C-24500A(SH)

3.6 Shrinkage. The fabric shall neither shrink nor elongate more than 4 percent for type I cloth nor more than 2 percent for type II cloth in both the warp and filling directions after 5 launderings and when tested (see 4.5).

3.7 Dimensions and put-up.

3.7.1 Width. The width inclusive of selvage shall be as specified. A plus or minus tolerance of 2 percent shall be allowed (see 6.2).

3.7.2 Length. Unless otherwise specified (see 6.2), the cloth shall be in one continuous length of $50 \pm 2\text{-}1/2$ yards.

3.8 Designs and patterns. The designs and patterns, dyed color or natural, shall be as specified (see 6.2).

3.9 Weave and yarn count. Any weave and yarn count may be used consistent with the total performance requirements of this specification and the intended use of the cloth.

3.10 Physical requirements: When tested the finished cloth shall conform to the requirements specified in table I (see 4.5).

TABLE I. Physical requirements.

Characteristics	Requirements		Test method (FED-STD-191)
	Type I	Type II	
Weight ounce/square yard (minimum) (gram/square meter)	5.2 ± 0.5 (176.3 \pm 17)	7.8 ± 0.5 (264.4 \pm 17)	5041
Breaking strength pounds (newtons) (minimum)			
Warp	60 (267)	200 (1751)	5100
Filling	60 (267)	175 (1532)	5100
Abrasion resistance (minimum cycles)	25	25	<u>1</u> /5300
Tearing strength pounds (newtons) (minimum)			
Warp	3.5 (15.6)	18 (80)	5132
Filling	3.0 (13.3)	18 (80)	5132

1/ End point is state destruction.

MIL-C-24500A(SH)

3.11 Material safety data sheet (MSDS). The contracting activity shall be provided a material safety data sheet at the time of contract award. The MSDS shall be provided in accordance with the requirements of FED-STD-313. The MSDS shall be included with each shipment of the material covered by this specification (see 6.6).

3.12 Fire retardance and optical smoke density. The finished cloth shall conform to the fire retardance and optical smoke density requirements specified in MIL-STD-1623 (see 4.5).

3.12.1 Fire retardance and optical smoke density after laundering. After five launderings the fire retardance shall conform to the fire and optical smoke density requirements specified in MIL-STD-1623.

3.13 Hand, character, and appearance. The hand, character, and appearance of the cloth after testing for colorfastness to laundering, heat ageing, and light shall show no appreciable change from the original cloth when tested (see 4.5).

3.14 Marking. The length of each roll shall be legibly marked with indelible ink on a ticket securely attached to the roll.

3.15 Labels. Labels shall be made of a fire-resistive material conforming to this specification, and shall be supplied in the quantity specified by the contracting activity for later attachment to the finished articles (see 6.2). Each label shall have the following information:

- (a) Specification number and type.
- (b) Manufacturer of the woven cloth.
- (c) Laundering instructions: Follow manufacturer's recommendations.
- (d) Lot number.

3.16 Workmanship. The finished cloth shall conform to the quality established by this specification. The demerit points per 100 square yards, when calculated as specified in section 4 shall not exceed the established maximum point value.

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 the 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 program. The

MIL-C-24500A(SH)

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 the 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.

4.2 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. Unless otherwise specified (see 6.2), first article inspection shall consist of the examination and tests specified in 4.5 (see 6.3). Sample shall be visually inspected for appearance, color, and finish.

4.3.1 First article sample. If more than one weave, color, or pattern of cloth is acquired at any one time, only one 3-yard cut for each fabric shall constitute the first article sample.

4.4 Quality conformance inspection. Sampling for inspection (see 4.2) shall be performed in accordance with MIL-STD-105, except where otherwise indicated hereinafter (see 6.3).

4.4.1 Examination of an item. Defects found during the examination shall be classified as specified in 4.4.1.1 through 4.4.1.5.

4.4.1.1 Yard-by-yard examination. Each roll in the sample shall be examined on face side only. When the total yardage in the roll does not exceed 100 yards (91.4 meters) the entire yardage in the roll shall be examined. When the total yardage in the roll exceeds 100 yards (91.4 meters) only 100 yards (91.4 meters) shall be examined. Defects defined in accordance with FED-STD-4, which are clearly noticeable at a normal inspection distance of 3 feet (0.91 meter) shall be scored and assigned demerit points as listed in 4.4.1.2 except that only the slubs and knots which exceed the limits shown on Sears Fabric Defect Scale or equal, (see 6.7) "D" for slubs and "C" for knots shall be scored. The sample size shall be in accordance with the following:

<u>Lot size yards</u>	<u>Sample size (rolls)</u>
3200 or less	8
3201 to 10,000	13
10,001 and over	20

(No more than one roll shall be taken from any shipping container unless the number of shipping containers in the lot is less than the required number of rolls in which case all shipping containers shall be present in the sample.)

The lot shall be unacceptable if the points per 100 square yards (83.6 square meters) of the total yardage examined exceeds 50 points. The lot shall be unacceptable if the individual points per 100 square yards (83.6 square meters) of

MIL-C-24500A(SH)

two or more individual rolls exceeds 75 points. If one roll exceeds 45 points per 100 square yards (83.6 square meters), a second sample, the same size as the final sample, shall be examined only for individual roll quality examination. The lot shall be unacceptable if one or more rolls in the second sample exceeds 45 points per 100 square yards (83.6 square meters). Point computation for lot quality and individual roll quality shall be as follows:

<u>Total points scored in sample x 3600</u>	- Points per 100
Contracted width of cloth (inches x total yards inspected)	square yards
	(83.6 square meters)

4.4.1.2 Demerit points. Demerit points shall be assigned as follows:

For defects 3 inches (7.6 centimeter (cm)) or less in any dimension	- one point
For defects exceeding 3 inches (7.6 cm) but not exceeding 6 inches (15.2 cm) in any dimension	- two points
For defects exceeding 6 inches (15.2 cm) but not exceeding 9 inches (22.9 cm) in any dimension	- three points
For defects exceeding 9 inches (22.9 cm) in any dimension	- four points

The following defects, when present in the yard-by-yard and overall examination shall be scored four points for each yard (0.9 meters) in which they occur:

- (a) Baggy, ridgy, or wavy cloth.
- (b) Width less than specified.
- (c) Uneven weaving.
- (d) Odor.
- (e) Overall uncleanness or discoloration.
- (f) Character of finish not equal to standard sample or first article when applicable.

4.4.1.3 Examination for length of individual rolls. The individual roll shall be examined for gross length and the number of pieces in the roll. Any gross length found to be more than 2 yards below the gross length marked on the ticket or any roll found to contain more than one piece, when applicable, shall be considered a defect with respect to length. The unit of product for this examination shall be one roll. The sample unit for this examination shall be one roll.

4.4.1.4 Examination for total yardage in sample. The lot shall be unacceptable if the total of the actual gross lengths of cloth on rolls in the sample is less than the total of the gross lengths marked on the rolled tickets (see 4.4.1).

4.4.1.5 Examination for compliance with the textile fiber products identification act. During the yard-by-yard examination, each piece in the sample shall be examined for compliance with the rules and regulations under the Textile Fiber Products Identification Act. Each piece not labeled in accordance with this act shall be a defect. The lot shall be unacceptable if two or more of these defects occur (see 4.4.1).

MIL-C-24500A(SH)

4.5 Testing of the end item. The methods of testing specified in accordance with FED-STD-191, whenever applicable and as listed in table II shall be followed. The physical values specified apply to the average of the determinations made on a unit of product for test purposes as specified in the applicable test method. The unit of product for test purposes shall be 2 continuous linear yards, full width of the finished cloth. The sample size shall be as shown in the list below. The lot size shall be expressed in units of 1 linear yard. The lot shall be unacceptable if one or more units of products fail to meet any test requirements specified.

Lot size (yards)	Sample size
800 or less	2
801 to 22,000	3
22,001 and up	5

4.5.1 Heat aging test. The test specimen for colorfastness shall be exposed in an oven for 7 days at a temperature of $180 \pm 2^{\circ}\text{F}$. The test sample shall be removed, conditioned and evaluated for change in color and hand. "Good" colorfastness is equivalent to AATCC gray scale class 4 change in color when compared with cutting from piece taken from test.

TABLE II. Test methods.

Characteristics	Requirement reference	Test method
Fiber type	3.2.1	ASTM D 578
Colorfastness to:		
Light	3.4.1.1	AATCC 16/16E, <u>1/</u> , <u>2/</u>
Heat ageing	3.4.1.3	AATCC 16
Laundering	3.4.1.4	5610 <u>2/</u> , <u>4/</u>
Crocking	3.4.1.2	5651 <u>2/</u> , <u>4/</u>
Abrasion/resistance		
Warp	Table I	5300 <u>3/</u> , <u>4/</u>
Filling	Table I	5300 <u>3/</u> , <u>4/</u>
Shrinkage	3.6	AATCC 135 (Procedure IIIB)
Weight per square yard	Table I	5041 <u>4/</u>
Breaking strength		
Warp	Table I	5100 <u>4/</u>
Filling	Table I	5100 <u>4/</u>

See footnotes at end of table.

MIL-C-24500A(SH)

TABLE II. Test methods - Continued.

Characteristics	Requirement reference	Test method
Tearing strength	Table I	5132 <u>4/</u>
Warp	Table I	5132 <u>4/</u>
Filling		
Fire retardance (Warp and Filling)	MIL-STD-1623	(see MIL-STD-1623)
Fire retardance after Five launderings (Warp and Filling)	MIL-STD-1623	AATCC 135 (Procedure III B) and MIL-STD-1623

- 1/ The test shall be terminated if at the end of exposure of 60.0 standard fading hours, the material shows no appreciable change in color, or shall be compared with the standard sample, if applicable.
- 2/ Results should be reported as pass or fail.
- 3/ End point is the state of destruction.
- 4/ FED-STD-191 (Textile Test Methods).

4.6 Inspection of packaging. Sample packages and packs, and the inspection of the preservation, packing and marking for shipment and storage shall be in accordance with the requirements of section 5 and the documents specified therein.

5. PACKAGING

(The packaging requirements specified herein apply only for direct Government acquisition.)

5.1 General.

5.1.1 Navy fire-retardant requirements.

- (a) Treated lumber and plywood. Unless otherwise specified (see 6.2), all lumber and plywood including laminated veneer material used in shipping container and pallet construction, members, blocking, bracing, and reinforcing shall be fire-retardant treated material conforming to MIL-L-19140 as follows:

Levels A and B - Type II - weather resistant.

Category 1 - general use.

Level C - Type I - non-weather resistant.

Category 1 - general use.

- (b) Fiberboard. Unless otherwise specified (see 6.2), fiberboard used in the construction of class-domestic, non-weather resistant fiberboard and cleated fiberboard boxes including interior packaging forms shall meet the flame spread index and specific optic density requirements as specified in PPP-F-320 and amendments thereto.

MIL-C-24500A(SH)

5.2 Cloth (see 3.7).

5.2.1 Put-up, preservation, packing, and marking. Cloth put-up in rolls, shall be put-up level A or commercial; preservation level A or commercial; packing level A, B or commercial; marking including bar coding and other packaging acquisitioning options as specified (see 6.2) in accordance with PPP-P-1133.

5.3 Labels.

5.3.1 Preservation. Preservation shall be level A, C or commercial as specified (see 6.2).

5.3.1.1 Level A.

5.3.1.1.1 Sized. Labels in quantity specified (see 3.15 and 6.2), shall be neatly stacked in bundles. Bundles shall be securely crosstied with cotton tape or twine, or crossbanded with elastic bands. A quantity of bundles, not exceeding 10 pounds net weight, shall be placed in an intermediate pack as specified herein.

5.3.1.1.2 Tape rolls. Labels in the form of printed tape rolls, in quantity not exceeding 10 pounds net weight, shall be placed in an intermediate pack as specified herein.

5.3.1.1.3 Intermediate pack. Intermediate pack containers shall be in accordance with the intermediate container requirements, appendix F of MIL-STD-2073-1. Containers shall be of the water resistant folding, set-up, or metal edged paperboard construction. Unless otherwise specified (see 6.2), containers selection including other options such as grade and type shall be at the contractor's option.

5.3.1.2.1 Level C. Labels shall be processed as specified under level A except that the intermediate containers shall be of the non-weather resistant construction.

5.3.1.3 Commercial. Commercial packaging requirements shall be in accordance with ASTM D 3951.

5.3.2 Packing. Packing shall be level A, B, C, or commercial as specified (see 6.2).

5.3.2.1 General requirements for levels A, B, and C. Containers selected (see 5.3.2.1.1) shall be minimum weight and cube consistent with the protection required, and of uniform size.

5.3.2.1.1 Levels A, B, and C containers. Labels preserved as specified (see 5.3.1) shall be packed in exterior shipping containers for the level of packing specified (see 5.3), in accordance with exterior shipping container requirements of MIL-STD-2073-1, appendix C, and herein. Unless otherwise specified (see 6.2), container selection and option shall be at the contractor's option.

MIL-C-24500A(SH)

5.3.2.1.1.1 Caseliners, closure and gross weight.

5.3.2.1.1.1.1 Caseliners. Unless otherwise specified (see 6.2), level A shipping containers containing labels preserved level C or commercial shall be provided with waterproof caseliners in accordance with MIL-STD-2073-1.

5.3.2.1.1.1.2 Closure. Container closure, reinforcing, or banding shall be in accordance with the applicable container specification or appendix thereto except that weather-resistant fiberboard boxes shall be closed in accordance with method V and reinforced with non-metallic or tape banding and domestic or fire retardant fiberboard boxes shall be closed in accordance with method I using pressure sensitive tape.

5.3.2.1.1.1.3 Weight. Wood, plywood, and cleated type containers exceeding 200 pounds gross weight shall be modified by the addition of skids in accordance with MIL-STD-2073-1 and the applicable container specifications or appendix thereto.

5.3.2.1.2 Commercial. Labels preserved as specified (see 5.3.1), shall be packed for shipment in accordance with ASTM D 3951 and herein.

5.3.2.1.2.1 Container modification. Shipping containers exceeding 200 pounds gross weight shall be provided with a minimum of two, 3- by 4-inch nominal wood skids laid flat, or a skid- or sill-type base which will support the material and facilitate handling by mechanical handling equipment during shipment and storage.

5.3.3 Marking, levels A, B, C, and commercial. In addition to any special marking required (see 6.2) and herein, interior (unit and intermediate) packs and shipping containers shall be marked with including bar coding for shipment, stowage, and storage in accordance with MIL-STD-2073-1, appendix F.

5.4 Special marking. Each roll of cloth (see 3.14) shall be marked as follows: "FREE OF ASBESTOS AND CERAMIC (REFRACTORY) FIBERS."

5.5 Material safety data sheet. A copy of the material safety data sheet (see 3.11) shall be attached to the shipping document for each destination.

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 woven cloth material detailed in this specification are intended for use as draperies, curtains, and slipcover material on ships and for other applications where inherent fire retardancy is required.

6.2 Acquisition requirements. Acquisition documents must specify the following:

- (a) Title, number, and date of this specification.
- (b) 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).

MIL-C-24500A(SH)

- (c) Type required (see 1.2.1).
- (d) Whether a first article sample is not required (see 3.1).
- (e) Whether woven cloth is other than opaque (see 3.3).
- (f) Color and shade required (see 3.4).
- (g) Width required (see 3.7.1).
- (h) Length required if other than specified (see 3.7.2).
- (i) Designs and patterns (see 3.8).
- (j) Quantity of labels required (see 3.15 and 5.3.1.1.1).
- (k) Whether first article examination and test is not required (see 4.3).
- (l) When fire-retardant requirements are not required (see 5.1.1).
- (m) Cloth, levels of preservation and packing and other packaging options required (see 5.2.1).
- (n) Labels, level of preservation and packing required (see 5.3.1 and 5.3.2).
- (o) Container selection of other than contractors option (see 5.3.1.1.3 and 5.3.2.1.1).
- (p) When caseliners are not required (see 5.3.2.1.1.1.1).
- (q) Special marking required (see 5.3.3).

6.3 Consideration of data requirements. The following data requirements should be considered when this specification is applied on a contract. The applicable Data Item Descriptions (DID's) should be reviewed in conjunction with the specific acquisition to ensure that only essential data are requested/provided and that the DID's are tailored to reflect the requirements of the specific acquisition. To ensure correct contractual application of the data requirements, a Contract Data Requirements List (DD Form 1423) must be prepared to obtain the data, except where DoD FAR Supplement 27.475-1 exempts the requirement for a DD Form 1423.

<u>Reference Paragraph</u>	<u>DID Number</u>	<u>DID Title</u>	<u>Suggested Tailoring</u>
3.2.3, 3.5.2	DI-E-2121	Certificate of compliance	----
4.3	DI-T-4902	First article inspection report	----
4.4	DI-T-5329	Inspection and test report	----

The above DID's were those cleared as of the date of this specification. The current issue of DoD 5010.12-L, Acquisition Management Systems and Data Requirements Control List (AMSDL), must be researched to ensure that only current, cleared DID's are cited on the DD Form 1423.

6.4 First article. When first article inspection is required, the contracting officer should provide specific guidance to offerors whether the item(s) should be a preproduction sample, a first article sample, a first production item, a sample selected from the first production items, a standard production item from the contractor's current inventory, and the number of items to be tested as specified in 4.3. The contracting officer should also include specific instructions in acquisition documents regarding arrangements for examinations, approval of first article test results, and disposition of first articles. Invitations for bids should provide that the Government reserves the right to waive the require

MIL-C-24500A(SH)

ment for samples for first article inspection to those bidders offering a product which has been previously acquired or tested by the Government, and that bidders offering such products, who wish to rely on such production or test, must furnish evidence with the bid that prior Government approval is presently appropriate for the pending contract. Bidders should not submit alternate bids unless specifically requested to do so in the solicitation.

6.5 Standard sample. For access to a standard sample, address the contracting activity using the invitation for bids (see 3.1.1).

6.6 Material Safety Data Sheets. Contracting officers will identify those activities requiring copies of completed Material Safety Data Sheets prepared in accordance with FED-STD-313. The pertinent Government mailing addresses for submission of data are listed in FED-STD-313.

6.7 Fabric defect scales. Sears fabric defect scales are available from Sears, Roebuck and Company, Department 817 (ATTN: BSC 23-29), Sears Tower, Chicago, IL 60684.

6.8 Subject term (key word) listing.

Designs and patterns
Fiber types
Heat ageing
Woven clothes

6.9 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Preparing activity:
Navy - SH
(Project 8305-N226)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

1. DOCUMENT NUMBER MIL-C-24500A(SH)		2. DOCUMENT TITLE CLOTH, DRAPERY, BUNK CURTAIN, SLIPCOVERS, AND LABELS, FIRE RETARDANT	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one) <input type="checkbox"/> VENDOR <input type="checkbox"/> USER <input type="checkbox"/> MANUFACTURER <input type="checkbox"/> OTHER (Specify): _____	
b. ADDRESS (Street, City, State, ZIP Code)			
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)	

(TO DETACH THIS FORM, CUT ALONG THIS LINE.)