

MIL-C-19002D
30 June 1985
SUPERSEDING
MIL-C-19002C
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MILITARY SPECIFICATION
CLOTH, COATED, AND STRIP, COATED CLOTH - POLYCHLOROPRENE ON NYLON

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

1. SCOPE

1.1 Scope. The specification covers the requirements for nylon base polychloroprene coated cloth and coated cloth strip for use in the manufacture of pneumatic life preservers and waterproof garments.

1.2 Classification. The polychloroprene coated nylon shall be furnished in the following types and classes, as specified (see 6.2.1).

Type I - Coated cloth (coated on one side)

Type II - Coated cloth strip (coated on both sides - uncured on one side)

Class I - Light weight strip

Class 2 - Medium weight strip

Type III - Coated cloth strip (coated on one side - uncured on coated side)

Type IV - Coated cloth strip (coated on both sides - uncured on both sides)

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. Unless otherwise specified, the following specifications, standards, and handbooks of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation form a part of this specification to the extent specified herein.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Systems Engineering and Standardization Department (Code 93), Naval Air Engineering Center, Lakehurst, NJ 08733, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC 8305

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SPECIFICATIONS

FEDERAL

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

MILITARY

MIL-A-5540 - Adhesive, Polychloroprene.
 MIL-C-7020 - Cloth, Parachute, Nylon.
 MIL-C-19377 - Cloth, Twill, Nylon.
 MIL-W-43334 - Webbing and Tape, Textile, Packaging and Packing of.

STANDARDS

FEDERAL

FED-STD-191 - Textile Test Methods.

MILITARY

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.

(Copies of specifications, standards, handbooks, drawings, and publications required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. The issues of the documents which are indicated as DoD adopted shall be the issue listed in the current DoDISS and the supplement thereto, if applicable.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM D 297	Rubber Products - Chemical Analysis
ASTM D 412	Rubber Properties in Tension
ASTM D 413	Rubber Property - Adhesion to Flexible Substrate
ASTM D 572	Rubber Deterioration by Heat and Oxygen
ASTM D 750	Rubber Deterioration in Carbon - Arc or Weathering Apparatus

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

2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.

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3. REQUIREMENTS

3.1 Standard sample. Unless otherwise specified, the coated cloth and coated cloth strip shall match the standard sample for shade (see 6.4).

3.2 First article. When specified, a sample shall be subjected to first article inspection (see 4.4 and 6.3).

3.3 Materials.

3.3.1 Base cloth. The base cloth for all types except type II, class I, shall conform to the requirements of MIL-C-19377. The base cloth for type II, class I, shall conform to the requirements of MIL-C-7020, type I, except that silicone oil shall not be used and the cloth need not conform to the air permeability and permanence of finish requirements. The color of the base cloth shall be in accordance with the requirements of MIL-C-19377 as specified by the contracting activity. The cloth for types II and IV strips may be dyed or undyed as specified by the contracting activity (see 6.2.1).

3.3.2 Coating. The coated cloth and coated cloth strip shall be uniformly coated with a polychloroprene base compound. The compound used in coating the base cloth shall contain not less than 60 percent by volume of polychloroprene. The remainder of the compound shall consist of softeners, curing agents, anti-oxidants and reinforcing materials. The coating shall be suitably pigmented during the compounding process so that the cured coating and the base cloth shall have a uniform color. The color of the coating for types II and IV shall be as specified by the contracting activity (see 6.2.1). The coating compound shall be compatible with the base cloth and shall contain no waxes or other ingredients that may bloom to the surface to adversely affect the coating adhesion and cementability of the finished cloth. The ingredients of the coating compound shall be water insoluble after curing. The coating compound, when cured in sheet form to the same degree of cure and in the same manner as the finished product, shall have the physical properties specified in table I. No strike through of the compound to the uncoated side of the cloth shall be permitted.

3.3.2.2 Strip. Strip shall be cut in the bias direction of the cloth. Types II and IV tapes shall be coated on both sides and type III tape shall be coated on one side in conformance with the requirements of table II. One side of type II strip, the coated side of type III strip, and both sides of type IV strip shall have a surface coating of a high (see 3.3.2) polychloroprene content stock which may be uncured or partially cured to the degree specified by the contracting activity. This surface coating shall be compatible with the cured coated cloth and shall be protected by a suitable liner. The liner shall be so made that it shall be capable of free separation without affecting the adhesion and cementability properties of the strip.

3.4 Curing. Unless otherwise specified, the coated cloth shall be cured to meet the performance requirements of this specification.

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3.5 Dusting powder. The cured polychloroprene coating may be lightly dusted, except for the type II, class I, coated cloth strip. The dusting powder for use on the polychloroprene coating shall be whiting, talc or other finely divided mineral material which does not support mildew growth (see 4.5.1). Dusting powder shall not contain fibrous asbestos.

3.6 Age. The date of release from the coater shall be stamped at the end of each roll of coated cloth and on the identification tag.

3.7 Physical properties. The finished coated cloth and coated strips shall conform to requirements in tables II and III when tested as specified in 4.6.

3.8 Dimensions. The coated cloth shall be furnished in rolls of 80 to 120 yards in length and in the width specified by the contracting activity. The maximum number of pieces per roll shall be 3 and no single piece shall be less than 20 yards. The coated cloth strip shall be furnished in rolls of 75 \pm 2 yards in one continuous length. The width, unless otherwise specified by the contracting activity shall be 3/4 to 1 inch.

3.9 Workmanship. The finished coated cloth and strip shall conform to the quality established by this specification. The occurrence of defects shall not exceed the applicable acceptable quality level.

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 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 assure supplies and services conform to prescribed requirements.

4.1.1 Test equipment and inspection facilities. The manufacturer shall insure that test and inspection facilities of sufficient accuracy, quality and quantity are established and maintained to permit performance of required inspections.

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

- a. First article inspection (see 4.4).
- b. Quality conformance inspection (see 4.5).

4.3 Inspection conditions. Unless otherwise specified herein, all tests shall be performed in accordance with the test conditions specified in FED-STD-191, or the applicable test method referenced in the specification.

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4.4 First article inspection. First article inspection shall be performed by the contractor, after award of contract and prior to production, at a laboratory acceptable to the Government. First article inspection shall be performed on a sample unit which has been produced with equipment and procedures normally used in production. First article approval is valid only on the contract under which it is granted, unless extended by the Government to other contracts.

4.4.1 Sample size. One sample unit (see 4.6) submitted in accordance with 3.2 shall be subjected to first article inspection. The sample shall be visually examined for shade and finish and tested as specified in 4.6. Any failure shall be cause for refusal to grant first article approval.

4.4.2 Adhesion of coating samples.

4.4.2.1 Manufacturer's prepared samples. The manufacturer's samples shall be prepared by the manufacturer (coater). Two pieces measuring 12 by 12 inches shall be taken from the coated cloth prior to curing. The two pieces shall be placed together, coating to coating, except for a 1 inch wide separation along a filling edge allowed by the insertion of paper. The specimen shall be cured in the same manner and degree of cure as the finished product and tested as specified in 4.6.5.

4.4.2.2 Adhesive prepared sample. If the manufacturer's prepared samples are not available, the sample shall be prepared using adhesive conforming to MIL-A-5540 and tested as specified in 4.6.5.

4.5 Quality conformance inspection. The quality conformance inspection shall consist of the examination in 4.5.2 and 4.5.3 and the tests specified in 4.6.

4.5.1 Component and material inspection. In accordance with 4.1, components and materials shall be inspected and tested in accordance with all the requirements of referenced specifications and standards unless otherwise excluded, amended, modified or qualified in this specification or applicable purchase documents. In addition, the contractor shall retain in his possession, and available for inspection by the Government representative, documental evidence showing that the coating compound conforms to the requirements of 3.3.2 and the dusting powder (see 3.5) does not support mildew growth.

4.5.2 Examination of the end item. Examination of the end item shall be in accordance with 4.5.2.1 through 4.5.2.4. Unless otherwise specified, sampling shall be in accordance with table VI. Approximately equal number of yards from each roll shall be examined.

4.5.2.1 Yard by yard examination of coated cloth. Each yard of coated cloth shall be visually inspected on the coated side for the defects identified in table IV. In addition, the cloth shall be given a through-light inspection for pinholes. Examination for pinholes shall be made by viewing the surface of the fabric, held under light tension, using a light-table. The light-table shall have a clear glass top and shall be

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illuminated with a minimum of two 25-watt fluorescent tubes. The tubes shall be positioned 9 to 10 inches below the glass top and 6 to 8 inches from the sides and ends of the light housing. The spacing between tubes shall be 5 to 6 inches and the interior of the light housing shall be flat white. During the examination, when the surface of the coated cloth is in contact with the light-table, the illumination in the darkened area shall not exceed 25 foot candles of natural, artificial or a combination of natural and artificial light (see 6.5). All defects shall be marked on the defect with a marking crayon and along the selvage edge adjacent to the defect. All defects shall be counted regardless of their proximity, one to another, except where two or more defects represent a single local condition of the cloth, in which case only one defect shall be counted. A continuous defect shall be counted as one defect for each warpwise yard or fraction thereof in which it occurs.

4.5.2.2 Examination of coated cloth strip. Samples of the coated cloth strip shall be selected in accordance with table VI. All defects shall be counted regardless of their proximity, one to another, except where two or more defects represent a single local condition of the strip, in which case only one defect shall be counted. A continuous defect shall be counted as one defect for each warpwise yard or fraction thereof in which it occurs. An approximate equal number of yards shall be examined from each roll selected for the defects listed in table IV.

4.5.2.3 Overall examination. Each defect listed in table V shall be counted not more than once in each roll examined. The sample size (number of rolls selected as sample) for this examination, and the defect acceptance number shall be as shown in table VI.

4.5.2.4 Examination for length and identification marking. Each individual roll in the sample shall be examined for the defects listed in table VII. The sample unit for this examination shall be one roll. The sample size and acceptance number shall be as shown in table VI.

4.5.3 Inspection of packaging. The sampling and inspection of the preservation, packing, and container marking shall be in accordance with the requirements of PPP- P-1136 and MIL-W-43334, as applicable.

4.6 Method of inspection. The methods of testing specified in FED-STD-191 or ASTM Methods, wherever applicable, and as listed in table VIII shall be followed. The physical and chemical values specified in Section 3 apply to the average of the determinations made on a unit of product for test purposes as specified in the applicable test methods. The sample unit for testing shall be:

- a. 4 continuous yards, full width of the coated cloth.
- b. 10 continuous yards, full width, of the coated cloth strip.
- c. 2 square feet in area of cured coating compound, 0.07 to 0.08 inch thick.
- d. 2 coating adhesion test specimens (see 4.4.2) in warp direction.

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The lot size shall be expressed in units of 1 linear yard and the sample size (number of sample units) shall be as specified below. The lot shall be unacceptable if any unit fails to meet any requirement specified. The individual numerical values shall be shown in the final test result.

<u>Lot size</u>	<u>Sample size</u>
800 or less	2
801 up to and including 22,000	3
22,001 and more	5

4.6.1 Polychloroprene compound. The volume of polychloroprene present in the coating compound shall be determined in accordance with ASTM D 297 and the following conversion formula for percent of polychloroprene by volume.

$$\text{percent} = \frac{\text{percent by weight of polychloroprene} \times \text{specific gravity of sample}}{\text{specific gravity of polychloroprene } 1/}$$

1/ Specific gravity of polychloroprene is 1.27.

4.6.2 Tensile strength and elongation of coating compound. The tensile strength of cured coating compound samples shall be determined before and after exposure to the specified accelerated aging and accelerated weathering tests. Tensile strength and ultimate elongation shall be determined in accordance with methods ASTM D412. The type C die shall be used.

4.6.3 Accelerated aging of coating compound. The cured coating compound samples shall be subjected to 96 hours of accelerated aging in accordance with the oxygen-pressure test, ASTM D572.

4.6.4 Accelerated weathering of coating compound. The cured coating compound samples shall be tested in accordance with method ASTM D750. All specimens shall be stretched to 10 percent elongation. The stretched samples shall be exposed for 100 hours in the weathering unit.

4.6.5 Adhesion of coating. The finished coated cloth and tape samples shall be subjected to the test for adhesion of coating to the cloth in accordance with ASTM D413. The test specimens for this test shall be prepared in accordance with 4.4.2. The cured coating adhesion test sample shall be cut into strip specimens one inch wide after discarding, one-half inch of the coated cloth on each side of the sample. Coating adhesion shall be determined employing strip specimens.

4.6.6 Resistance to low temperature. After exposure for 4 hours at a temperature of $-40^{\circ} \pm 1^{\circ}\text{C}$ ($-40^{\circ} \pm 2^{\circ}\text{F}$) and while still at that temperature, the coated cloth or coated cloth strip shall be subjected to the test described in method 5874 of FED-STD-191, except that the determination of hydrostatic resistance is not required under this test.

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4.6.7 Air retention. Three specimens (13 inches in diameter) of the coated cloth shall be individually tested on the test jig as shown in figure 1. The specimen shall be placed, coated side down, on the holder and the plate collar tightly bolted thereon. Care should be taken to insure a leaktight fit. Water shall be poured on top of the specimen, sufficient to keep the top of the specimen completely covered at all levels of pressure. The specimen shall be inflated to an air pressure of 10 psi for 5 minutes. The air bubbles on the cloth surface produced by air pressure closing the spaces between the cloth and coating shall be removed. The cloth shall show no signs of leakage as evidenced by continued production of air bubbles.

5. PACKAGING

5.1 Packaging, packing and marking. The coated cloth shall be packaged, packed and marked in accordance with the requirements of PPP-P-1136. Strip shall be packaged, packed and marked in accordance with MIL-W-43334. The levels of packaging and packing shall be as specified by the contracting activity (see 6.2.1). In addition to the markings required, each tag shall be marked with the following information: Date of Application of Coating. In addition, the following precautionary marking shall appear on all containers:

STORE IN A COOL DRY PLACE.

6. NOTES

6.1 Intended use. The coated cloth and coated cloth strip are intended for use as components in the manufacture of pneumatic life preservers and selected waterproof garments.

6.2 Ordering data.

6.2.1 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number and date of this specification.
- b. Type and class (see 1.2).
- c. Color (see 3.3.1 and 3.3.2).
- d. Quantity and dimension required (see 3.8).
- e. Selection of applicable levels of packaging and packing (see 5.1).
- f. Whether first article inspection is required (see 3.2).

6.2.2 Data requirements. When this specification is used in an acquisition which incorporates a DD Form 1423, Contract Data Requirements List (CDRL) the data requirements identified below shall be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in

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accordance with the approved CDRL incorporated into the contract. When the provisions of FAR 52.209 are invoked and the DD Form 1423 is not used, the data specified below shall be delivered by the contractor in accordance with the contract or purchase order requirements. Deliverable data required by this specification are cited in the following paragraphs:

<u>Paragraph no</u>	<u>Data requirements</u>	<u>Applicable DID no.</u>
4.4	First article inspection report	DI-T-4902

(Copies of data item descriptions required by contractors in connection with specific acquisition functions should be obtained from the Naval Publications and Forms Center or as directed by the contracting officer.)

6.3 First article. When a first article inspection is required, the item will be tested and should be a first production item. The first article should consist of one sample unit. The contracting officer should include specific instructions in acquisition documents regarding arrangements for examinations and test approval of the first article.

6.4 Standard shade sample. For access to standard shade samples, address the contracting office issuing the invitation for bids.

6.5 Instrument for measuring light intensity. An instrument that has proved satisfactory for measuring the illumination on the surface of the cloth is "Weston Illuminator Model 756 or 703, type 8, with visor filter", made by Daystrom, Inc., Weston Industries, Newark NJ (see 4.5.2.1).

6.6 Application of coating. A foundation coat, of the coating compound shall be applied to the base cloth with the remainder of the coating applied to the base cloth by means of a spread coating.

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

Custodians:
Army - ME
Navy - AS
Air Force - 99

Preparing activity:
Navy - AS

(Project No. 8305-0734)

Review activities:
Navy - SH
Air Force - 11, 82

User activities:
Navy - NU
Air Force - 45

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TABLE I Coating compound (see 3.3.2).

Characteristic	Requirement
<u>Tensile strength:</u> Original, psi, minimum After 96 hours accelerated aging, percent loss, maximum After 100 hours accelerated weathering, percent loss, maximum	 1800 10 20
<u>Elongation:</u> Original, percent, minimum After 96 hours accelerated aging, percent loss, maximum After 100 hours accelerated weathering, percent loss, maximum	 500 10 20

TABLE II. Weight (ounces per square yard) (see 3.7).

Type (see 1.2)	Polychloroprene coating (face)		Cloth		Polychloroprene coating (back)		Total finished weight
	Uncured	Cured	Straight	Bias <u>1/</u>	Cured	Uncured	
I	-	-	3.0 - 3.3	-	4.0 - 4.6	-	7.0 - 7.9
II: <u>2/</u> Class 1	-	1.1 - 1.4	-	1.0 - 1.1	1.1 - 1.4	2.0 - 2.8	5.2 - 6.7
Class 2	-	4.0 - 4.6	-	3.0 - 3.3	4.0 - 4.3	2.0 - 2.8	13.0 - 15.0
III <u>2/</u>	2.0 - 2.8	4.0 - 4.6	-	3.0 - 3.3	-	-	9.0 - 10.7
IV <u>2/</u>	2.0 - 2.8	4.0 - 4.3	-	3.0 - 3.3	4.0 - 4.6	2.0 - 2.8	15.0 - 17.8

1/ Bias seams shall be sealed on both sides.2/ See 3.3.2.2.

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TABLE III. Physical properties (finished coated cloth and tape) (see 3.7).

Characteristic	Requirement
Breaking strength (coated cloth only), lbs, minimum:	
As received:	
Warp	180
Filling	170
After accelerated aging:	
Warp	160
Filling	155
After weatherometer exposure; percent loss, maximum	40
Elongation (type II, class I only), percent, minimum:	
After accelerated aging:	
Warp	22
Filling	22
After accelerated weathering:	
Warp	22
Filling	22
Blocking, scale rating, maximum:	
Type I	No. 2
Type II (cured surface)	
Air retention (coated cloth only)	No signs of air leakage
Resistance to low temperature <u>1/</u>	No indication of cracking, flaking, or separation
Adhesion of coating, pounds per inch width, minimum: <u>2/</u>	
Cloth:	
Manufacturer's prepared sample	10.0
Sample prepared in accordance with 4.4.2.2	8.0
Strip:	
Type II, class 1 (applied to face surface coating of type II, class 1)	5.0
Type II, class 2 (applied to face surface coating of type II, class 2)	7.5
Type III (applied to coated side of type I)	7.5
Type IV (both sides) (applied to coated side of type I)	7.5

1/ Under visual examination.2/ See 4.4.2.

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TABLE IV. List of defects (see 4.5.2.1 and 4.5.2.2).

Any cut, hole, pinhole, tear, scratch or abrasion mark.

Any blister or delamination

Any lump or foreign matter.

Crease or wrinkle - resulting in doubling or adhesion of surfaces, distortion or ripples that cannot be corrected by manual pressure.

Any uncoated area, any thinly coated area or any base cloth exposed due to inadequate coating.

Any spot, stain or streak.

Cracked or flaked.

TABLE V. Overall defects (see 4.5.2.3).

Overall uncleanness.

Objectionable odor.

NOTE: Odors of chemicals commonly used in coating compounds shall not be regarded as objectionable.

Color off shade, not uniform, mottled, blotchy or spotted

Uneven thickness of coating, clearly noticeable, occurring intermittently or throughout the roll.

Tackiness (film will adhere and not readily unroll).

Edges rolled, folded, scalloped or corded and extending more than 1/3 the length of the roll.

Blooming or bleeding of compounding ingredients to surface that would impair adhesion or cementability of the finished coated cloth.

Dimensional distortion and waviness (cloth does not lie uniformly flat along its entire width when no tension is applied).

Missing - date of coating application from end of roll or identification tag.

Coating - not applied to the sides specified.

Width less than specified.

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TABLE VI. Sample size (see 4.5.2.1, 4.5.2.2 and 4.5.2.3).

Lot size in yards <u>1/</u>	Sample size in rolls	Defect Acceptance no
Up to 1,200	5	0
1,201 to 3,200	7	0
3,201 to 10,000	10	0
10,001 to 22,000	15	0
22,001 to 35,000	20	1
35,001 and over	25	2

1/ If a lot contains fewer than 5 rolls, each roll shall be examined.

TABLE VII. Length and identification defects (see 4.5.2.4).

Examine roll for	Defect
Length	Length of roll more or less than specified.
Number	Length of roll less than length indicated on roll ticket.
Gross length	Actual gross length of rolls in sample is less than the total gross yards marked on piece ticket.
Identification marking	Marking information inaccurate. Marking illegible, incomplete, or omitted from roll or identification tag. Size of letters and numerals varies from size specified by more than $\pm 1/4$ inch.

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TABLE VIII. Test methods (see 4.6).

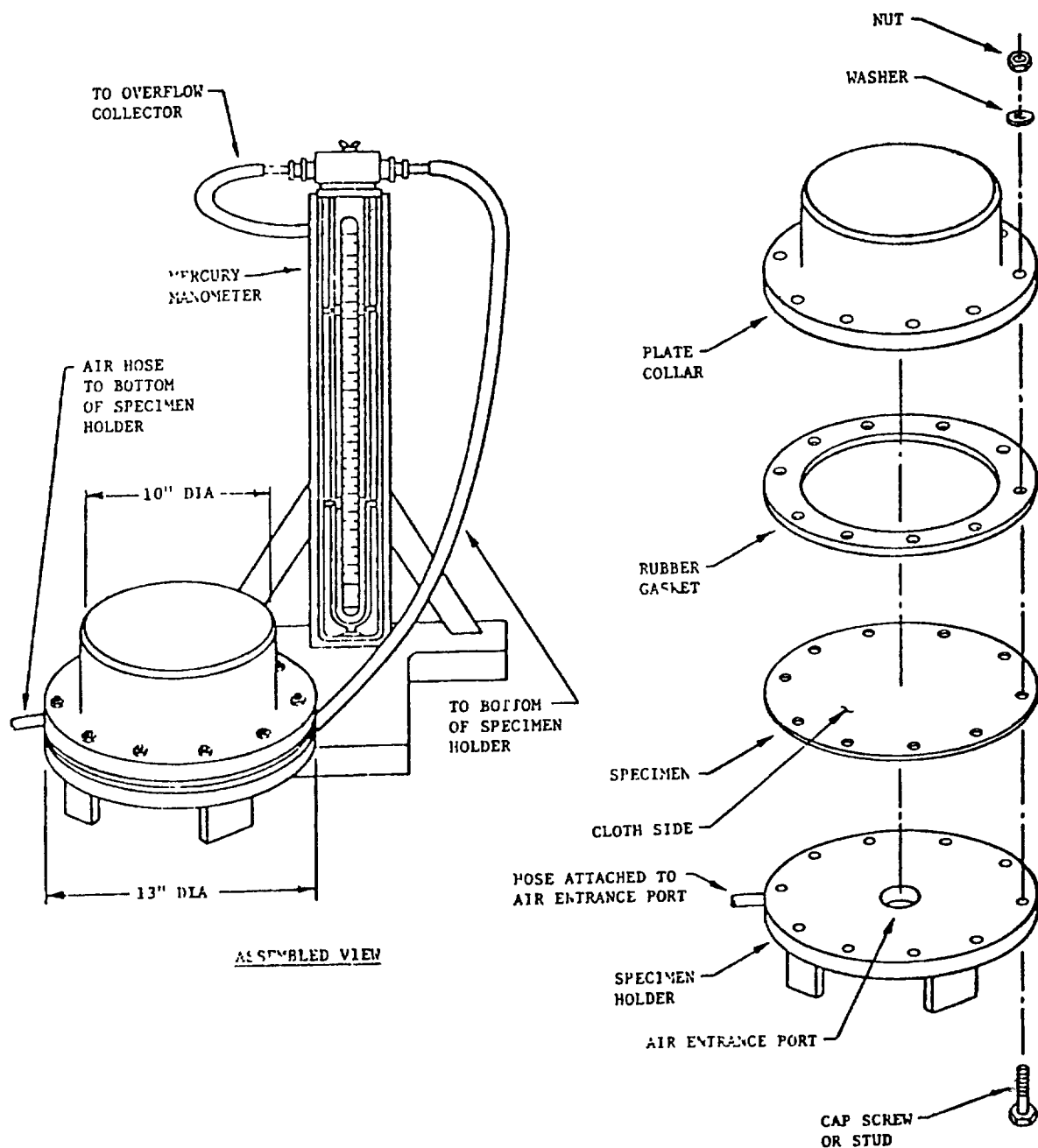
Characteristic	Paragraph	
	Requirement	Test <u>3/</u>
<u>COATING COMPOUND:</u>		
Polychloroprene	3 3.2	4 6 1
Tensile strength:	Table I	
Initial		4.6.2
After accelerated aging		4.6.2/4 6.3
After accelerated weathering		4.6.2/4 6.4
Elongation: (type II, class 1 only)	Table I	
Initial		4.6 2
After accelerated aging		4.6.2/4.6.3
After accelerated weathering		4.6.2/4 6.4
<u>COATED CLOTH:</u>		
Weight of coating	Table II	5041
Breaking strength:	Table III	
Initial		5100
After accelerated aging <u>1/</u>		5850/5100
After accelerated weathering <u>2/</u>		5804/5100
Blocking	Table III	5872
Adhesion of coating (cloth and tape)	Table III	4.6 5
Resistance to low temperature	Table III	4.6.6
Air retention	Table III	4.6.7

1/ Exposed for 96 hours at $70^{\circ} \pm 1^{\circ}\text{C}$ ($158^{\circ} \pm 2^{\circ}\text{F}$).

2/ Exposed for 50 hours with uncoated side exposed to light source and spray heads shut off.

3/ Test method no's are FED-STD-191.

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FIGURE 1. Air leakage inspection apparatus.

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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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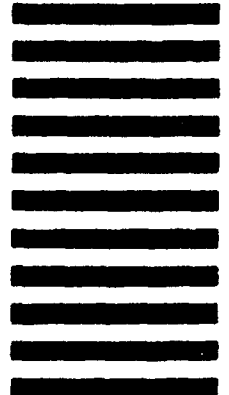
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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

1. DOCUMENT NUMBER MIL-C-19002D		2. DOCUMENT TITLE CLOTH, COATED, AND STRIP, COATED CLOTH-POLYCHLOROPRENE ON NYLON	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one)	
b. ADDRESS (Street, City, State, ZIP Code)		<input type="checkbox"/> VENDOR	
		<input type="checkbox"/> USER	
		<input type="checkbox"/> MANUFACTURER	
		<input type="checkbox"/> OTHER (Specify) _____	
5. PROBLEM AREAS			
a. Paragraph Number and Wording			
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)	