



PIA-C-17208B

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Superseding

PIA-C-17208A

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The following commercial specification is adopted from the military document. Initial and Revision A includes all known accepted revisions, amendments, notices, and Department of Defense (DoD) engineering changes previously developed for this item. Revisions B and forward include changes adopted to reflect technology and design evolution.

CLOTH, PARACHUTE, 240-PERMEABILITY; FOR USE WITH UNDERWATER ORDNANCE

The Parachute Industry Association makes this document available for use by Industry and Government organizations that wish to apply this specification to their products.

1. SCOPE

1.1 Scope. This specification covers parachute cloth having the weave pattern indicated in FIGURE 1 and an air permeability of 240 cubic feet per minute per square foot of cloth. It is intended for use with underwater ordnance.

1.2 Type and Class designation. The parachute cloth shall be of the following types and classes, as specified (see 6.2).

- Type I - Nylon
- Type II - Saponified Acetate
- Class A - 4.0 ounce
- Class B - 8.0 ounce
- Class C - 10.0 ounce

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in Sections 3 and 4 of this specification. This section does not include documents cited in other sections of this specification nor is it recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of the documents cited in Sections 3 and 4 of this specification, whether or not they are listed.

2.2 Government publications.

2.2.1 Government publications. The following Government publications form a part of this document.

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AVA Documents
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STANDARDS

FEDERAL

FED-STD-4 - Glossary of Fabric Imperfections

(Unless otherwise indicated, copies of the above specifications and standards are available from the Standardization Documents Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094. Electronic copies of Military and Federal standards and specifications may be obtained from <https://assist.daps.dla.mil/quicksearch/>.)

FEDERAL TRADE COMMISSION

16 CFR 303 - Rules and Regulations Under the Textile Fiber Products Identification Act.

(Copies are available online at: www.ftc.gov or from the Federal Trade Commission, 600 Pennsylvania Avenue, N.W., Washington, DC 20580-0001.)

2.3 Non-government publications. The following documents form a part of this document.

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS (AATCC)

- AATCC 81 - pH of the Water-Extract from Wet Processed Textiles
- AATCC 106 - Colorfastness to Water: Sea

(Applications for copies should be addressed to the AATCC National Headquarters, P.O. Box 12215, Research Triangle Park, NC 27709-2215. Electronic copies may be obtained from www.aatcc.org.)

AMERICAN SOCIETY FOR QUALITY (ASQ)

ANSI/ASQ Z1.4 - Sampling Procedures and Tables for Inspection by Attributes

(Applications for copies should be addressed to American Society For Quality, 600 North Plankinton Avenue, Milwaukee, WI 53203. Electronic copies may be obtained from www.asq.org.)

ASTM INTERNATIONAL (ASTM)

- ASTM D 276 - Standard Test Methods for Identification of Fibers in Textiles
- ASTM D 737 - Standard Test Method for Air Permeability of Textile Fabrics
- ASTM D 1776 - Standard Practice for Conditioning and Testing Textiles
- ASTM D 1777 - Standard Test Method for Thickness of Textile Materials
- ASTM D 2261 - Standard Test Method for Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of -Extension Tensile Testing Machine)

- ASTM D 3774 - Standard Test Method for Width of Textile Fabric
- ASTM D 3775 - Standard Test Methods for Warp (End) and Filling (Pick) Count of Woven Fabrics
- ASTM D 3776 - Standard Test Methods for Mass per Unit Area (Weight) of Fabrics
- ASTM D 3882 - Standard Test Method for Bow and Skew in Woven and Knitted Fabrics
- ASTM D 5035 - Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method)

(Application for copies should be addressed to the ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Electronic copies may be obtained from www.astm.org/.)

PARACHUTE INDUSTRY ASSOCIATION (PIA)

PIA-TEST METHOD-503 - PERMANENCE OF SET AND SHRINKAGE IN PARACHUTE FABRICS (BOILED WATER TEST METHOD)

2.4 Order of precedence. Unless otherwise noted herein or in the contract 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 Materials.

3.1.1 Type I. The material used in Type I cloth shall be a high-tenacity multifilament nylon yarn of the proper size to meet the applicable requirements of this specification.

3.1.2 Type II. The material used in Type II cloth shall be a continuous multifilament saponified oriented cellulose acetate yarn of the proper size to meet the applicable requirements of this specification.

3.2 Finish. The finished cloth shall be smooth and even and shall not contain sizing, lubricating, or weighting materials. The pH of the water extract shall be in the range from 5.5 to no more than 9.0.

3.3 Color. The color of the finished cloth and its referenced standard shall be as specified by the procuring activity (see 6.1).

3.3.1 Camouflaging. When camouflaging is specified (see 6.2), the pattern and colors shall be in exact accordance with samples or instructions supplied by the procuring activity. Colors shall show good fastness to salt water when tested as specified in TABLE II.

3.3.2 Coloring matter. Unless otherwise specified (see 6.2), no coloring matter of any