



**PIA-C-5646D**

19 June 2013

**Superseding  
PIA-C-5646C**

14 December 2009

The following commercial specification is originally adopted from the military document. Revision A included 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.

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## **CLOTH, AIRPLANE**

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 cotton cloth in the types as specified below and is intended for use in the integral surface coverings of airplanes, as a base for a modified butyl rubber coated cloth, and in military personnel and cargo parachute systems.

Type I - mercerized cotton

Type II - non-mercerized Supima<sup>®</sup> cotton

### **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 or 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 publication forms a part of this document.

### **SPECIFICATIONS**

#### **MILITARY**

MIL-D-5549 - Dope; Cellulose-Acetate- Butyrate, Clear for Aircraft Use

(Unless otherwise indicated, copies of the above specification are available from the DLA Document Services, 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 (FTC)

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

(Copies are available online at: [www.ftc.gov](http://www.ftc.gov) or from the Federal Trade Commission, 600 Pennsylvania Avenue, N.W., Washington, DC 20580-0001. Electronic copies may also be obtained from <http://www.access.gpo.gov/>.)

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

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS (AATCC)

AATCC 20 - Fiber Analysis: Qualitative  
AATCC 81 - pH of the Water-Extract from Wet Processed Textiles

(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](http://www.aatcc.org).)

AMERICAN SOCIETY FOR QUALITY (ASQ)

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

(Copies are available online at: [www.asq.org](http://www.asq.org) or American Society For Quality, 600 North Plankinton Avenue, Milwaukee, WI 53203.)

ASTM INTERNATIONAL (ASTM)

ASTM D 629 - Standard Test Methods for Quantitative Analysis of Textiles  
ASTM D 2165 - Standard Test Method for pH of Aqueous Extracts of Wool and Similar Animal Fibers  
ASTM D 3775 - Standard Test Method 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 3786 - Standard Test Method for Hydraulic Bursting Strength of Textile Fabrics-Diaphragm Bursting Strength Tester Method  
ASTM D 3951 - Standard Practice for Commercial Packaging