



AEROSPACE MATERIAL SPECIFICATION

AMS3801™

REV. D

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Superseding AMS3801C

Cloth, Parachute - Meta-Aramid, Low Modulus

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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1. SCOPE

1.1 Form

This specification covers a low modulus meta-aramid in the form of cloth.

1.2 Application

These products have been typically used in the construction of parachutes, but usage is not limited to such applications.

1.3 Classification

Low modulus meta-aramid parachute cloth shall be as specified in the applicable detail specification, classified by weight and weave. An example is shown in 8.2. The cloth covered by each detail specification appears as part of the title.

1.4 Safety - Hazardous Materials

While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.

2. APPLICABLE DOCUMENTS

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM D 737	Standard Test Method for Air Permeability of Textile Fabrics
ASTM D 1388	Standard Test Method for Stiffness of Fabrics
ASTM D 1777	Standard Test Method for Measuring Thickness of Textile Materials
ASTM D 2261	Standard Test Method for Tearing Strength of Woven Fabrics by the Tongue (Single Rip) Method (Constant-Rate-of-Extension Tensile Testing Machine)
ASTM D 3776	Standard Test Method for Mass per Unit Area (Weight) of Woven Fabrics

2.2 U.S. Government Publications

Available from the Document Automation and Production Service (DAPS), Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Tel: 215-697-6257, <http://assist.daps.dla.mil/quicksearch/>.

FED-STD-4	Federal Standard, Glossary of Fabric Imperfections
FED-STD-191	Federal Standard, Textile Test Methods
FED-STD-595	Federal Standard, Colors used in Government Procurement

2.3 Federal Trade Commission Publications

Available from the Federal Trade Commission, 600 Pennsylvania Avenue, N.W., Washington, DC 20580, Tel: 202-326-2222 or www.ftc.gov.

Rules and Regulations under the Textile Fiber Products Identification Act

3. TECHNICAL REQUIREMENTS

3.1 Detail Specifications

The requirements for a specific cloth shall consist of all requirements specified herein in addition to requirements specified in the applicable detail specification. In case of conflict between requirements of this specification and an applicable detail specification, requirements of the detail specification shall govern.

3.2 Material

Cloth shall be woven from low modulus meta-aramid fibers, which shall not char at a temperature lower than 671 °F (355 °C), determined in accordance with 4.5.1.2. The yarn shall be of the filament count, denier, twist, and color, and the weave shall be as specified in the applicable detail specification.

3.3 Properties of Yarn

Shall be as specified in Table 1, determined in accordance with the following test methods:

TABLE 1 - YARN PROPERTIES

Property	Test Method
Denier	4.5.1.1
Twist	FED-STD-191, Method 4054
Carbonization	4.5.1.2 (See 3.3.1)



Documents

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