



AEROSPACE MATERIAL SPECIFICATION

AMS3856™

REV. B

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Superseding AMS3856A

Cloth, Upholstery, Flame Resistant

RATIONALE

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

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Documents

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1. SCOPE:

1.1 Form: This specification and its supplementary detail specifications cover flame resistant cloth woven from various fibers.

1.2 Application: Primarily for use in upholstering aircraft seats.

1.3 Classification: This product shall be classified by material, type of weave, weight, and other properties as shown in the detail specifications.

2. APPLICABLE DOCUMENTS: The following publications form a part of this specification to the extent specified herein. The latest issue of Aerospace Material Specifications shall apply. The applicable issue of other documents shall be as specified in AMS 2350.

2.1 SAE Publications: Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096.

2.1.1 Aerospace Material Specifications:

AMS 2350 - Standards and Test Methods

2.2 ASTM Publications: Available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

ASTM D2261 - Tearing Strength of Woven Fabrics by the Tongue (Single Rip)
Method (Constant-Rate-of-Extension Tensile Testing Machine)

ASTM E662 - Specific Optical Density of Smoke Generated by Solid Materials

2.3 U.S. Government Publications: Available from Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120.

2.3.1 Federal Specifications:

O-T-236 - Tetrachloroethylene (Perchloroethylene), Technical Grade
PPP-P-1133 - Packaging and Packing of Synthetic Fabric

2.3.2 Federal Standards:

FED-STD-4 - Glossary of Fabric Imperfections
FED-STD-191 - Textile Test Methods

2.3.3 Military Standards:

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

3. TECHNICAL REQUIREMENTS:

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

3.2 Material: Cloth shall be woven using the type or types of fiber and weave specified in the applicable detail specification.

3.3 Properties of Yarn: Shall be constructed of fiber material as specified in the applicable detail specification; supplier's certificate of compliance is acceptable for fiber identification.

3.4 Properties of Cloth: Shall be as specified in the applicable detail specification, determined in accordance with the following test methods:

Requirement	Test Method
Type Weave	Visual, See detail specification
Weight	FED-STD-191, Method 5041
Thread Count	FED-STD-191, Method 5050
Breaking Strength	FED-STD-191, Method 5104
Tearing Strength	ASTM D2261
Flame Resistance	FED-STD-191, Method 5903
Smoke Generation	ASTM E662