

**AEROSPACE
MATERIAL
SPECIFICATION**

SAE	AMS3664	REV. C
Issued	1953-02	
Revised	1988-04	
Stabilized	2012-01	
Superseding AMS3664B		

Cloth, Glass, Vinyl Coated

RATIONALE

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

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THIS REVISION CONTAINS ONLY EDITORIAL CHANGES.

1. SCOPE:

1.1 Form: This specification covers four types of glass cloth (See 3.1) coated on both sides with a flexible, vinyl-copolymer resin, the type of glass cloth varying with nominal thickness of the product.

1.2 Application: Primarily for use as a nonporous, abrasion and flame resistant, trim cloth or as a covering for thermal and acoustic insulation blankets for use up to 80°C (180°F).

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

Am 2810 - Identification and Packaging, Elastomeric Products

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

ASTM D471 - Rubber Property - Effect of Liquids

ASTM D573 - Rubber-Deterioration in An Air Oven

ASTM D751 - Testing Coated Fabrics

ASTM D3389 - Testing Coated Fabrics - Abrasion Resistance (Rotary Platform, Double-Head Abrader)

2.3 **U.S. Government Publications:** Available from Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120, except as specified in 2.3.2.

2.3.1 **Federal Specifications:**

TT-L-32 - Lacquer, Cellulose Nitrate, Glass, for Aircraft Use

2.3.2 **Federal Aviation Administration Regulations:** Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

FAR Part 25 - Airworthiness Standards: Transport Category Airplanes

3. **TECHNICAL REQUIREMENTS:**

3.1 **Material:** Shall be glass cloth coated with a flexible, vinyl-copolymer resin of uniform thickness on both faces to produce products conforming to the requirements of Table I and 3.2.

TABLE I

Glass Cloth Type	Nominal Thickness		Coated Weight	
	Inch	Millimetre	Oz per sq yd	g/m ²
108	0.0045	0.114	4.5 ± 0.5	152 ± 17
119	0.005	0.13	5.0 ± 0.5	170 ± 17
118	0.007	0.18	8.0 ± 0.5	271 ± 17
126	0.011	0.28	11.0 ± 1.0	373 ± 34

3.1.1 **Color:** Shall be at the option of the vendor unless aluminum or other specific color is ordered.

3.1.2 **Finish:** Shall be nonglossy.

3.2 **Properties:** The product shall conform to the following requirements; tests shall be performed on the product supplied and in accordance with specified test methods, insofar as practicable.

3.2.1 **As Received:**

3.2.1.1 **Breaking Strength:** Shall be as specified in Table II, determined in accordance with ASTM D751, Grab Method.

TABLE II

Nominal Thickness Inch	Breaking Strength, minimum lbf per in. width	
	Warp	Fill
0.0045	70	40
0.005	125	100
0.007	190	140
0.011	225	195