

AEROSPACE MATERIAL SPECIFICATION

SAE AMS 3848/2

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Submitted for recognition as an American National Standard

CLOTH, NYLON, METALLIZED
Water Repellent Treated

1. SCOPE:

- 1.1 Form: This specification covers one type of metallized nylon cloth.
- 1.2 Application: Primarily for use in microwave radiation-protective clothing.
- 1.3 Classification: Water repellent treated metallized nylon cloth.

2. APPLICABLE DOCUMENTS: See AMS 3848.

3. TECHNICAL REQUIREMENTS:

- 3.1 Basic Specification: The complete requirements for procuring the metallized cloth described herein shall consist of this document and the latest issue of the basic specification, AMS 3848.
- 3.2 Properties: Shall conform to the requirements of Table I, Table II, and the following, determined in accordance with test methods specified in the basic specification:
 - 3.2.1 Finish: The cloth shall be given a durable water repellent finish which will meet the requirements of 3.2.2.
 - 3.2.2 Electrical Conductivity: The metallized cloth shall show electrical resistance not greater than 10 ohms per square after being subjected to accelerated laundering and salt spray.

4. QUALITY ASSURANCE: See AMS 3848.

5. PREPARATION FOR DELIVERY: See AMS 3848.

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6. ACKNOWLEDGMENT: See AMS 3848.
7. REJECTIONS: See AMS 3848.
8. NOTES: See AMS 3848.

TABLE I

BASE CLOTH REQUIREMENTS

Property	Requirement
Thread Count per in. (25.4 mm)	
Warp	40
Filling	22
Ply	
Warp	Singles
Filling	2
Twist, turns per in. (25.4 mm), min	
Warp	6
Filling	
Singles	3
Ply	6
Width (as specified)	36-1/2 in. + 1 or 72 in. + 3 (912 mm + 25 or 1800 mm + 75)
Thickness, max	0.0170 in. (0.425 mm)
Weight, max	3.25 oz per sq yd (110 g/m ²)
Breaking Strength, min	
Warp	100 lb per in. (17,500 N/m)
Filling	125 lb per in. (21,900 N/m)
Tearing Strength, min	
Warp	8 lb (35 N)
Filling	8 lb (35 N)