

AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard

SAE AMS 3848/1

Issued 4-1-86

CLOTH, NYLON, METALLIZED Untreated

1. SCOPE:

1.1 Form: This specification covers one type of metallized nylon cloth.

1.2 Application: Primarily for use in aerial tow targets.

1.3 Classification: Untreated 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 Air Permeability: Shall not change more than $\pm 15\%$.

3.2.2 Thickness: Shall not change more than $\pm 10\%$.

3.2.3 Shrinkage: Shall not shrink more than 2% in the warp direction nor more than 1% in the filling direction.

3.2.4 Electrical Conductivity: The metallized cloth shall show resistance not greater than 10 ohms per square.

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4. QUALITY ASSURANCE PROVISIONS: See AMS 3848.
5. PREPARATION FOR DELIVERY: See AMS 3848.
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 $\pm$ 25 or 1800 mm $\pm$ 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)
Air Permeability at 5 in. (125 mm) water pressure differential	3850 to 4000 cu ft/min. per sq ft (1155 to 1200 m ³ /min. per m ²)