



# AEROSPACE MATERIAL SPECIFICATION

AMS3909/2

REV. A

Issued 1985-07  
Revised 1995-10  
Reaffirmed 2014-08

Superseding AMS3909/2

(R) Cloth, Aramid  
2.25 Ounces per Square Yard (76.3 g/m<sup>2</sup>), 250 Pounds Force per Inch (43 782 N/m)

## RATIONALE

AMS3909/2A has been reaffirmed to comply with the SAE five year review policy.

### 1. SCOPE:

#### 1.1 Form:

This specification covers one weight and one strength of intermediate modulus aramid cloth.

#### 1.2 Application:

See AMS 3909.

#### 1.3 Classification:

2.25 ounces per square yard (76.3 g/m<sup>2</sup>) cloth with breaking strength not lower than 250 pounds force per inch (43,782 N/m) in the warp or filling direction.

### 2. APPLICABLE DOCUMENTS:

See AMS 3909.

### 3. TECHNICAL REQUIREMENTS:

#### 3.1 Basic Specification:

The complete requirements for procuring the cloth described herein shall consist of this document and the latest issue of the basic specification, AMS 3909.

#### 3.2 Properties:

Shall conform to the requirements of Table 1, 3.2.1, 3.2.2, 3.2.3, and 3.2.4.

3.2.1 Weave: Shall be a plain weave, determined by visual examination.

3.2.2 Color: Shall be as specified by purchaser.

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- 3.2.3 Width: Shall be 36.5 inches  $\pm$  0.5 (927 mm  $\pm$  13), determined in accordance with FED-STD-191, Method 5020.
- 3.2.4 Age: Shall be not more than two years from date of manufacture of the yarn to date of delivery of the cloth.

TABLE 1 - Properties

Requirement	Value	FED-STD-191 Test Method
Denier	200	
Ply		Visually
Warp and Filling	Single	
Twist/inch (25.4 mm)		
Warp	4.0	
Filling <sup>(1)</sup>	0	
Yarns/inch (25.4 mm) min		5050
Warp and Filling	40	
Weight, max	2.25 ounces per square yard (76.3 g/m <sup>2</sup> )	5041
Breaking Strength, min		5100
Warp and Filling	250 pounds force per inch (43,782 N/m)	
Air Permeability at 0.5 inch (13 mm) Water Pressure	100 to 175 cubic feet/minute per square foot (30.5 to 53.3 m <sup>3</sup> /minute per m <sup>2</sup> )	5450 and 4.5.1
(1) A twist designation of zero signifies that no twist is to be added to the yarn producer's twist as delivered.		

#### 4. QUALITY ASSURANCE PROVISIONS:

See AMS 3909.

#### 5. PREPARATION FOR DELIVERY:

See AMS 3909.