

AEROSPACE MATERIAL SPECIFICATION

SAE AMS-3788/2

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Submitted for recognition as an American National Standard

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Superseding AMS-3788/2

CLOTH, NYLON TWILL
3.3 Ounces per Square Yard (112 g/m²)
Smooth Finish, Water Repellent Treated

1. SCOPE:

1.1 Form: This specification covers one weight and one type of finish of nylon cloth.

1.2 Application: Primarily for use in the manufacture of aviation ground clothing.

1.3 Classification: 3.3 ounces per square yard (112 g/m²) weight, finished smooth, and with a durable water repellent treatment.

2. APPLICABLE DOCUMENTS: See AMS-3788.

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-3788.

3.2 Properties: Cloth shall conform to the requirements of Table I and the following:

3.2.1 Weave: Shall be 2 up 2 down right hand twill.

3.2.2 Width: Shall be not less than 40 inches (1 m) inclusive of selvages.

3.2.3 Weight: Shall be not greater than 3.3 ounces per square yard (112 g/m²).

3.2.4 Finish: Cloth shall be smooth and free from wrinkles and shall be given a water repellent treatment to meet the specified spray ratings.

4. QUALITY ASSURANCE PROVISIONS: See AMS-3788.

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5. PREPARATION FOR DELIVERY: See AMS-3788.
6. ACKNOWLEDGMENT: See AMS-3788.
7. REJECTIONS: See AMS-3788.
8. NOTES: See AMS-3788.

TABLE I

Property	Requirement
<u>Yarn</u> :	
Denier, Nominal	
Warp	70
Filling	100
<u>Cloth</u> :	
Thread Count, threads per inch (25.4 mm), min	
Warp	170
Filling	85
Breaking Strength, Ravel Strip, min	
Warp	115 pounds force per inch (20,485 N/m)
Filling	100 pounds force per inch (17,813 N/m)
Tear Strength, Strip Tear, min	
Warp	8 pounds force (36 N)
Filling	8 pounds force (36 N)
Elongation, min	
Warp	20%
Filling	20%
Air Permeability, max	15 cubic feet/minute per square foot (15 m ³ /minute per m ²)
pH	6.0 to 8.0
Non-Fibrous Materials, by weight, max	3%
Residual Shrinkage, max	
Warp Direction	2.0%
Filling Direction	1.5%
Spray Rating, min	
Original	100
After 3 Launderings	70
After 3 Dry Cleanings	70