

AEROSPACE MATERIAL SPECIFICATION

SAE AMS3272/2

REV. B

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Superseding AMS3272/2A

Cloth, Nylon, Polyurethane Coated
Plain Weave, 4.0 ounces/square yard (135 g/m²)

RATIONALE

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

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1. SCOPE:

1.1 Form: This specification covers a woven nylon cloth coated with polyether (EU) urethane.

1.2 Application: Primarily for use in inflatable survival equipment.

2. APPLICABLE DOCUMENTS: See AMS-3272.

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-3272.

3.2 Material: See AMS-3272.

3.3 Properties: Cloth shall conform to requirements specified in Table I and the following:

3.3.1 Color: Shall be as specified on the purchase order.

3.3.1.1 Pigment or dye shall be free from carbon or metallic particles.

3.3.1.2 Coated cloth shall show good colorfastness to light and water.

3.3.2 Blocking: Shall not exceed No. 2 scale rating.

3.3.3 Air Retention: There shall be no leakage of any specimen of coated cloth.

3.3.4 Low-Temperature Effect: Coated cloth specimens shall show no evidence of cracking, flaking, or separation.

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- 3.3.5 Adhesion of Coating: No individual specimen shall fail to meet the minimum requirement specified in Table I.
- 3.3.6 Width: Shall be as specified on the purchase order.
4. QUALITY ASSURANCE PROVISIONS: See AMS-3272.
5. PREPARATION FOR DELIVERY: See AMS-3272.
6. ACKNOWLEDGMENT: See AMS-3272.
7. REJECTIONS: See AMS-3272.
8. NOTES: See AMS-3272,

TABLE I

	Base Cloth	Coated Cloth
Type Weave	Plain	Plain
Weight, ounces per square yard	1.7 - 1.9	3.5 - 4.5
Yarns per inch, min		
Warp	108	N/A
Filling	88	N/A
Breaking Strength, pounds force per inch, min		
As Received		
Warp	140	125
Filling	120	100
After Humid Aging		
Warp	N/A	100
Filling	N/A	80
Tearing Strength, pounds force per inch, min		
Warp	6	2
Filling	5	2
Coating Adhesion, pounds force per inch, min	N/A	25

N/A = Not applicable