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# AEROSPACE MATERIAL SPECIFICATION



AMS-3272/1A

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Superseding AMS-3272/1

Submitted for recognition as an American National Standard

**CLOTH, NYLON, POLYURETHANE COATED**  
Plain Weave, 6.0 ounces/square yard (200 g/m<sup>2</sup>)

## 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. ACKNOWLEDGEMENT: 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	2.9 - 3.1	5.5 - 6.5
Yarns per inch, min		
Warp	60	N/A
Filling	50	N/A
Breaking Strength, pounds force		
Per inch, min		
As Received		
Warp	200	200
Filling	170	170
After Humid Aging		
Warp	N/A	160
Filling	N/A	136
Tearing Strength, pounds force		
per inch, min		
Warp	10	7
Filling	8	6
Coating Adhesion, pounds force per		
inch, min	N/A	32

N/A = Not applicable