

AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard



AMS-3272/3

REV
A

Issued 1984-07-01
Revised 1990-07-01
Superseding AMS-3272/3

CLOTH, NYLON, POLYURETHANE COATED
Plain Weave, 9.2 ounces/square yard (310 g/m²)

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.

SAE Technical Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

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	3.7 - 6.0	8.5 - 10.0
Yarns per inch, min		
Warp	82	N/A
Filling	58	N/A
Breaking Strength, pounds force		
per inch, min		
As Received		
Warp	290	325
Filling	240	265
After Humid Aging		
Warp	N/A	260
Filling	N/A	212
Tearing Strength, pounds force		
per inch, min		
Warp	20	18
Filling	18	15
Coating Adhesion, pounds force per		
inch, min	N/A	20

N/A = Not applicable