

**AEROSPACE  
MATERIAL  
SPECIFICATION**

**SAE** AMS3272

REV. B

Issued 1984-07  
Revised 1990-07  
Stabilized 2011-08  
Superseding AMS3272A

Cloth, Nylon, Polyurethane Coated  
Thermally, Radio Frequency, or Ultrasonically Sealable

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 and its supplementary detail specifications cover a woven nylon cloth coated with polyether (EU) urethane.
- 1.2 Application: Primarily for use in inflatable survival equipment requiring a cloth which is thermally, radio frequency, or ultrasonically sealable and having air holding characteristics.
- 1.3 Classification: This product shall be classified by weight and type of weave as shown in the detail specifications.
- 1.4 Safety - Hazardous Materials: While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.
2. APPLICABLE DOCUMENTS: The following publications form a part of this specification to the extent specified herein. The applicable issue of referenced publications shall be the issue in effect on the date of the purchase order.

2.1 ASTM Publications: Available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

ASTM D 751 - Testing Coated Fabrics

ASTM D 1682 - Breaking Load and Elongation of Textile Fabrics

ASTM D 2137 - Rubber Property - Brittleness Point of Flexible Polymers and Coated Fabrics

ASTM D 2261 - Tearing Strength of Woven Fabrics by the Tongue (Single Rip) Method (Constant-Rate-of-Extension Tensile Testing Machine)

ASTM D 3775 - Fabric Count of Woven Fabric

ASTM D 3776 - Mass per Unit Area (Weight) of Woven Fabric

2.2 U.S. Government Publications: Available from Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094 and as noted in 2.2.4.

2.2.1 Federal Specifications:

PPP-P-1136 - Packaging of Coated (Plastic, Rubber) and Laminated Fabrics

2.2.2 Federal Standards:

FED-STD-191 - Textile Test Methods

2.2.3 Military Standards:

MIL-STD-1487 - Glossary of Cloth Coating Imperfections

2.2.4 Other Publications: Available from the Federal Trade Commission, Washington, DC 20580.

Rules and Regulations under the Textile Fiber Products Identification Act

2.3 AATCC Publications: Available from the American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709-2215; also published in the ASTM Book of Standards.

AATCC Test Method 16-1978 - Colorfastness to Light: General Method

AATCC Test Method 61-1975 - Colorfastness to Washing, Domestic; and Laundering, Commercial: Accelerated

3. TECHNICAL REQUIREMENTS:

3.1 Detail Specifications: The requirements for a specific cloth shall consist of all requirements specified herein in addition to requirements specified in the applicable detail specification. In case of conflict between requirements of this basic specification and an applicable detail specifications, requirements of the detail specification shall govern.