

**AEROSPACE
MATERIAL
SPECIFICATION**

SAE AMS3570

REV. F

Issued 1956-07
Revised 1993-10
Reaffirmed 2001-04
Stabilized 2011-11

Superseding AMS3570E

Foam, Flexible Polyurethane
Open Cell, Medium Flexibility

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 two types of an open-cell, medium-flexibility polyurethane foam in the form of sheet, strip, and shapes.

1.2 Application:

These products have been used typically for general interior padding, cushioning, and vibration insulation, but usage is not limited to such applications.

1.3 Classification:

Foam furnished to this specification shall be classified as follows:

Type 1 - Polyurethane Foam - Ester

Type 2 - Polyurethane Foam - Ether

1.3.1 Type 2 shall be supplied unless Type 1 is ordered.

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 3574 Testing Flexible Cellular Materials - Slab, Bonded, and Molded Urethane Foams

2.2 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, except as specified in 2.2.1.

MIL-STD-2073-1 DOD Materiel, Procedures for Development and Application of Packaging Requirements

2.2.1 Federal Aviation Administration Regulations: Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

FAR Part 25.853 Airworthiness Standards: Transport Category Airplanes, Compartment Interiors

3. TECHNICAL REQUIREMENTS:

3.1 Material:

Shall be a flexible polyurethane foam free from contamination and from foreign and scrap materials.

3.1.1 Finish: All surfaces of sheet and strip shall have a cut finish.

3.1.2 Color: Shall be natural.

3.1.3 Non-Toxicity: Foam shall be non-toxic and shall not cause any harmful effects when in prolonged contact with human skin.

3.2 Properties:

Foam shall conform to the requirements shown in Table 1, 3.2.8, and 3.2.9; tests shall be performed in accordance with specified test methods on the foam supplied, insofar as practicable.