

AEROSPACE MATERIAL SPECIFICATION

SAE AMS3568/1

REV. B

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Superseding AMS3568/1A	

Foam, Polyether Urethane (EU) Elastomer, Shock Absorbing
5 Pounds/Cubic Foot (80 kg/m³) Density

RATIONALE

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

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1. SCOPE:

This specification covers a chemically or mechanically expanded polyether urethane (EU) elastomeric foam material in the form of ready-to-use sheet.

1.1 Application:

See AMS 3568.

2. APPLICABLE DOCUMENTS:

See AMS 3568.

3. TECHNICAL REQUIREMENTS:

3.1 Basic Specification:

The complete requirements for procuring the foam sheet described herein shall consist of this document and the latest issue of the basic specification, AMS 3568.

3.2 Material:

Shall be an elastomeric polyether urethane (EU) foam as specified in AMS 3568 formed by open or closed cells, with natural (cream) color.

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3.3 Properties:

The foam sheet shall conform to requirements shown in Table 1, determined in accordance with test methods listed in AMS 3568:

TABLE 1 - Properties

Paragraph	Property	Requirement
3.3.1	Density	3.0 to 6.0 pounds per cubic foot (48 to 96 kg/m ³)
3.3.2	Compression Deflection for 20% Compression, maximum	5 psi (34.5 kPa)
3.3.3	Compression Deflection for 40% Compression, maximum	8 psi (55.2 kPa)
3.3.4	Tensile Strength, minimum	25 psi (172 kPa)
3.3.5	Elongation, minimum	60.0%
3.3.6	Shock Absorption Resiliency, rebound, maximum	35.0%
3.3.7	Compression Set, maximum	20.0%
3.3.8	Dimensional Change, maximum	2.0%
3.3.9	Low-Temperature Flexibility	No cracking
3.3.10	Water Content, maximum	2.5%
3.3.11	Water Absorption, maximum	3.5%
3.3.12	Corrosion	The copper surfaces exposed to the foam specimen shall exhibit no corrosion, pitting, or alteration of the metal surface texture. Slight discoloration, tarnish, or surface oxidation is permissible.