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AEROSPACE MATERIAL SPECIFICATION



AMS 3725/1A

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Superseding AMS 3725/1

Submitted for recognition as an American National Standard

CORE, POLYURETHANE FOAM (POLYETHER)
2.0 Pounds Per Cubic Foot (32 kg/m³) Density

This specification has been declared "NONCURRENT" by the Aerospace Materials Division, SAE, as of July, 1992. It is recommended, therefore, that this specification not be specified for new designs.

This cover sheet should be attached to the initial issue of the subject specification.

"NONCURRENT" refers to those materials which have previously been widely used and which may be required on some existing designs in the future. The Aerospace Materials Division, however, does not recommend these as standard materials for future use in new designs. Each of these "NONCURRENT" specifications is available from SAE upon request.

PREPARED UNDER THE JURISDICTION OF AMS COMMITTEE "CP".

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1. SCOPE:

1.1 Form: This specification covers a rigid cellular polyurethane or polyisocyanurate (polyether only) foam in the form of board or block.

1.2 Application: Primarily for use as insulating core material in metal-faced sandwich constructions for use from -55° to 70°C (-65° to 160°F).

2. APPLICABLE DOCUMENTS: Shall be as shown in AMS 3725.

3. TECHNICAL REQUIREMENTS:

3.1 Basic Specification: The complete requirements for procuring the core described herein shall consist of this document and the latest issue of the basic specification, AMS 3725.

3.2 Material: Shall be as specified in AMS 3725.

3.3 Properties: Core shall have the following properties, determined in accordance with test methods listed in AMS 3725:

3.3.1 Density: 1.7 to 2.3 lb per cu ft (27 to 37 kg/m³).

3.3.2 Thermal Conductivity: 0.2 BTU in. per hr•ft²•°F (0.03 W/(m•°C)),
maximum

3.3.3 Water Absorption: 0.08 lb per ft² (0.38 kg/m²), maximum.

3.3.4 Flame Resistance: (See 8.2 of AMS 3725).

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