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400 COMMONWEALTH DRIVE WARRENDALE, PA 15096

AEROSPACE  
MATERIAL  
SPECIFICATION

AMS 3725/2

Issued 1-1-84  
Revised

CORE, POLYURETHANE FOAM (POLYETHER)  
4.0 lb per cu ft (64 kg/m<sup>3</sup>) Density

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 -65° to 160°F (-55° to 70°C).

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: 3.4 to 4.6 lb per cu ft (54 to 74 kg/m<sup>3</sup>).
- 3.3.2 Thermal Conductivity: 0.2 BTU in. per hr·ft<sup>2</sup>·°F (0.03 W/(m·°C)), maximum.
- 3.3.3 Water Absorption: 0.08 lb per ft<sup>2</sup> (0.38 kg/m<sup>2</sup>), maximum.
- 3.3.4 Flame Resistance: (See 8.2 of AMS 3725).

REAPPROVED

10/91

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