SAE Aerospace
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AEROSPACE MATERIAL SPECIFICATION

SAE AMS3678/9 | REV. B

Issued 2004-11
Revised 2010-11

Superseding AMS3678/9A

Type 9
Virgin Polytetrafluoroethylene (PTFE) Moldings with Pigment for AS4716 and AS5857 Backup Rings

RATIONALE

This revision corrects the color code call outs for AS5857 applications.

1. SCOPE

1.1 Form

This specification covers a polytetrafluoroethylene (PTFE) resin filled with inorganic pigment in the form of molded rods or tubes which are sintered after molding. The blue colored material is designated for use in rod glands only and the yellow colored material is designated for use in piston glands only. The brown colored material is designated for use in AS5857 rod glands only and the green colored material is designated for use in AS5857 piston glands only.

1.2 Application

These products are to be used as backup rings in AS4716 Glands for both static and dynamic applications and in AS5857 Glands for static applications where dimensional stability up to 450 °F (232 °C) with good mechanical properties is required, but usage is need not be limited to such applications. Each application should be considered individually.

2. APPLICABLE DOCUMENTS

See AMS3678.

3. TECHNICAL REQUIREMENTS

3.1 Basic Specification

The complete requirements for procuring the products described herein shall consist of this document and the latest issue of the basic specification, AMS3678.

3.2 Material

All products shall be molded from virgin polytetrafluoroethylene (PTFE) powder conforming to ASTM D 4894, Type II or Type IV, and should contain 2% or less of inorganic pigment to provide a uniform color throughout the material.

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