

AEROSPACE MATERIAL SPECIFICATION

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

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.

1.2 Application:

These products are to be used as backup rings in AS 4716 Glands for both static and dynamic applications requiring dimensional stability up to 450 °F (232 °C) with good mechanical properties, but usage is need not be limited to such applications. Each application should be considered individually.

2. APPLICABLE DOCUMENTS:

See AMS 3678.

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, AMS 3678.

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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