

Type 14  
40% Bronze Filled Virgin Polytetrafluoroethylene (PTFE) Moldings or Extrusions**RATIONALE**

This document addresses the specific properties of 40% bronze filled virgin polytetrafluoroethylene.

**1. SCOPE****1.1 Form**

This specification covers a polytetrafluoroethylene (PTFE) resin filled with 40% bronze powder in the form of extruded or molded rods or tubes which are sintered after molding or, in the case of extrusions, sintered during the extrusion process.

**1.2 Application**

These products have been used typically for bearing and wear ring applications in a lubricated environment against steel, stainless steel, and chromium plate, and requiring dimensional stability up to 450 °F (232 °C) with good mechanical properties, but usage is not 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 or extruded from virgin polytetrafluoroethylene (PTFE) powder conforming to ASTM D 4894, Type II or Type IV, uniformly blended with the specified filler. The blended powder shall consist of 40%  $\pm$  2 bronze powder and the remainder virgin PTFE powder. The filler percentage is measured by weight.

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