

**AEROSPACE
MATERIAL
SPECIFICATION**

SAE AMS3372

REV. B

Issued 1969-05
Revised 1988-07
Reaffirmed 2001-04
Stabilized 2012-01

Superseding AMS3372A

Silicone Resin, Elastomeric
High Tear Strength
Elevated Temperature Cure

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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1. SCOPE:

1.1 Form:

This specification covers a silicone resin in the form of a two-component liquid.

1.2 Application:

Primarily for encapsulation and conformal coating applications, where dielectric properties are important and an elevated temperature cure is desired.

1.3 Safety - Hazardous Materials:

While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The latest issue of Aerospace Material Specifications shall apply. The applicable issue of other documents shall be as specified in AMS 2350.

2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096.

2.1.1 Aerospace Material Specifications:

AMS 2350 Standards and Test Methods
AMS 2825 Material Safety Data Sheets

2.2 ASTM Publications:

Available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

ASTM D 150 A-C Loss Characteristics and Permittivity (Dielectric Constant) of Solid Electrical Insulating Materials
ASTM D 412 Rubber Properties in Tension
ASTM D 445 Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)
ASTM D 792 Specific Gravity and Density of Plastics by Displacement
ASTM D 2240 Rubber Property - Durometer Hardness

2.3 U.S. Government Publications:

Available from Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120.

2.3.1 Military Standards:

MIL-STD-794 Parts and Equipment, Procedures for Packaging and Packing of

3. TECHNICAL REQUIREMENTS:

3.1 Material:

Product shall consist of two parts, a liquid silicone resin and a separate catalyst which, when mixed in proper proportions, will cure at elevated temperature. The product shall be transparent.

3.2 Properties:

Product shall conform to the following requirements; tests shall be conducted in accordance with specified ASTM methods, insofar as practicable, at $25\text{ }^{\circ}\text{C} \pm 1$ ($77\text{ }^{\circ}\text{F} \pm 2$):

3.2.1 Uncatalyzed Resin:

3.2.1.1 Viscosity: Shall be not higher than 150,000 centipoises, (150 Pa-s) determined on a Brookfield Viscometer, Type HAF with a No. 6 spindle at 5 revolutions per minute.