AN AMERICAN NATIONAL STANDARD

SAE The Engineering Society For Advancing Mobility Land Sea Air and Space®
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400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard

AMS 3371

Issued 5-1-69
Revised 1-1-88

SILICONE RESIN, ELASTOMERIC, OPAQUE
Room Temperature Cure

This specification has been declared “NONCURRENT” by the Aerospace Materials Division, SAE, as of March 30, 1987. It is recommended that this specification not be specified for new designs.

This cover sheet should be attached to the original issue of the subject specification.

Noncurrent refers to those materials which have previously been widely used and which may be required on some existing designs in the future. The Aerospace Materials Division does not recommend these as standard materials for future use in new designs. Each of these "Noncurrent" specifications is available on request.

This specification is under the jurisdiction of the AMS Committee "CE".

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1. ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.

2. FORM: Liquid resin and separate catalyst.

3. APPLICATION: Primarily for encapsulation, conformal coating, and adhesive applications where dielectric properties are important and a room temperature cure is desired.

4. COMPOSITION: The product shall be an opaque silicone resin and suitable catalyst which will cure at room temperature.

5. TECHNICAL REQUIREMENTS:

5.1 Properties: The product shall conform to the following requirements; tests shall be conducted in accordance with the issue of specified ASTM methods listed in the latest issue of AMS 2350, insofar as practicable; tests shall be conducted at 23 - 29 C (73.4 - 84.2 F) unless otherwise specified.

5.1.1 Viscosity of Uncatalyzed Resin: The uncatalyzed resin shall have viscosity of 5000 - 11000 centipoise when tested using a Brookfield Viscometer Type HAF with a No. 2 spindle at 5 revolutions per minute.

5.1.2 Shelf Life of Uncatalyzed Resin: The shelf life of the uncatalyzed resin and the catalyst shall be not less than 6 months from date of shipment.

5.1.3 Pot life of Catalyzed Resin: The pot life of the catalyzed resin shall be not less than 2 hr as determined by the time necessary for the viscosity to double in centipoise value from zero hour catalyzed viscosity.

5.1.4 Catalyzed and Cured Resin: Test specimens shall be prepared by mixing and de-airing 100 parts by weight of the basis resin and 10 parts by weight of the catalyst, casting into the appropriate shapes, and curing at 18 - 29 C (64.4 - 84.2 F) for not less than 24 hours.

Hardness, Durometer A or equiv.	35 - 55	ASTM D2240
Specific Gravity	1.18 - 1.28	ASTM D792, Method A
Dielectric Constant, max at 1 MHz and 100 MHz	3.20	ASTM D150
Dissipation Factor, max at 1 MHz and 100 MHz	0.01	ASTM D150
Elongation,%, min	100	ASTM D412

6. QUALITY: The product shall be uniform in quality and condition, clean, homogeneous, and free from foreign materials and imperfections detrimental to fabrication, appearance, or performance of parts.