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AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard

SAE

AMS 3369A

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Superseding AMS 3369

SILICONE RESIN, ELASTOMERIC, OPAQUE
Elevated Temperature Cure

This specification has been "CANCELLED" by the Aerospace Materials Division, SAE, as of June, 1966. By this action, subject specification number and title will be deleted from the active specification index of Aerospace Material Specifications. Cancelled specifications are available from SAE upon request.

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AEROSPACE MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.

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AMS 3369

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Revised

SILICONE RESIN, ELASTOMERIC, OPAQUE Elevated Temperature Cure

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 an elevated temperature cure is possible.
4. COMPOSITION: The product shall be an opaque silicone resin and suitable catalyst which will cure at elevated 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 12 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 4 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 appropriate shapes, and curing at 143 - 154 C (289.4 - 309.2 F) for not less than 10 min. or at 70 - 80 C (158 - 176 F) for not less than 6 hours.

Hardness, Durometer A or equiv.	40 - 60	ASTM D2240
Specific Gravity	1.18 - 1.28	ASTM D792, Method A
Dielectric Constant, max at 1 MHz and 100 MHz	3.15	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.

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