SAE Aerospace
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AEROSPACE MATERIAL SPECIFICATION

SAE AMS3696 REV. C

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Noncurrent 1990-10
Stabilized 2012-01

Superseding AMS3696B

Aerodynamic Fairing Compound
-55° to +85°C (-65° to +185°F)

RATIONALE

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

STABILIZED NOTICE

This document has been declared "Stabilized" by SAE G-9, Aerospace Sealing Committee, and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

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1. SCOPE:

1.1 Form: This specification covers a two-component air-curing, aluminum-powder-filled, epoxy-resin-base material in the form of a paste or putty, suitable for application by spatula or putty-knife.

1.2 Application: Primarily for filling small holes, crevices, and gaps or for smoothing areas requiring thin layers of material to produce the required smoothness on aerodynamic surfaces subject to service temperatures from -55° to +85°C (-65° to +185°F).

2. APPLICABLE DOCUMENTS: The following publications form a part of this specification to the extent specified herein. The latest issue of Aerospace Materials Specifications (AMS) 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 2471 - Anodic Treatment of Aluminum Alloys, Sulfuric Acid Process, Undyed Coating
AMS 2478 - Anodic Treatment of Magnesium Alloys, Acid Type, Full Coat
AMS 2825 - Material Safety Data Sheets
AMS 3020 - Oil, Reference, for "L" Stock Rubber Testing
AMS 3021 - Reference Fluid for Testing Di-Ester (Polyol) Resistant Material
AMS 3821 - Cloth, Type "E" Glass, "B" Stage Epoxy-Resin-Impregnated, 181 Style Fabric, Self Extinguishing
AMS 3824 - Cloth, Type "E" Glass, Finished for Resin Laminates
AMS 4045 - Aluminum Alloy Sheet and Plate, 5.6Zn - 2.5Mg - 1.6Cu - 0.26Cr (7075; -T6 Sheet, -T651 Plate)
AMS 4377 - Magnesium Alloy Sheet and Plate, 3.0Al - 1.0Zn (AZ31B-H24)
AMS 4911 - Titanium Alloy Sheet, Strip, and Plate, 6Al - 4V, Annealed
AMS 5528 - Steel Sheet, Strip, and Plate, Corrosion Resistant, 17Cr - 7.1Ni - 1.1Al

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

ASTM D471 - Rubber Property - Effect of Liquids
ASTM D1210 - Fineness of Dispersion of Pigment-Vehicle Systems
ASTM D1824 - Apparent Viscosity of Plastisols and Organosols at Low Shear Rates by Brookfield Viscometer
ASTM D2583 - Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor
ASTM D3359 - Measuring Adhesion by Tape Test
ASTM STP 500 - Gardner/Sward Paint Testing Manual

2.3 U.S. Government Publications: Available from Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120.

2.3.1 Federal Specifications:

QQ-A-250/12 - Aluminum Alloy 7075, Plate and Sheet
QQ-M-44 - Magnesium Alloy Plate and Sheet (AZ31B)
TT-I-735 - Isopropyl Alcohol
TT-M-261 - Methyl Ethyl Ketone (MEK)
TT-P-1757 - Primer Coating, Zinc Chromate Low-Moisture Sensitivity
TT-R-248 - Remover, Paint and Lacquer, Solvent Type
TT-T-266 - Thinner, Dope and Lacquer (Cellulose Nitrate)
CCC-C-440 - Cheese Cloth
PPP-P-1892 - Paint, Varnish, Lacquer, and Related Materials, Packaging, Packing, and Marking of

2.3.2 Federal Standards:

Federal Test Method Standard No. 141 - Paint, Varnish, Lacquer, and Related Materials; Methods of Inspection, Sampling, and Testing