

**AEROSPACE  
MATERIAL  
SPECIFICATION**

**SAE** AMS3373

REV. C

Issued 1981-01  
Revised 1995-10  
Reaffirmed 2001-01  
Stabilized 2012-01

Superseding AMS3373B

Compound, Silicone Rubber, Insulating and Sealing  
35 to 55

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 elastomeric silicone insulating and sealing compounds supplied as two-component systems which cure at room temperature.

### 1.2 Application:

These products have been used typically for protecting the electrical integrity of electrical and electronic components by excluding moisture and contamination and by providing resilient cushioning between -50 and +205 °C (-58 and +401 °F), but usage is not limited to such applications. Compound may be applied by potting or encapsulating.

### 1.3 Classification:

Compound covered by this specification is classified as follows:

Class 1    Low Viscosity  
Class 2    Medium Viscosity

### 1.4 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 SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order.

### 2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

AMS 2825	Material Safety Data Sheets
AMS 3020	Oil, Reference, for "L" Stock Rubber Testing
AMS 3021	Fluid, Reference, for Testing Di-Ester (Polyol) Resistant Materials
AMS 4049	Sheet and Plate, Alclad, 5.6Zn, 2.5Mg, 1.6Cu, 0.23Cr, Solution and Precipitation Heat Treated

### 2.2 ASTM Publications:

Available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

ASTM D 149	Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies
ASTM D 150	A-C Loss Characteristics and Permittivity (Dielectric Constant) of Solid Electrical Insulating Materials
ASTM D 257	D-C Resistance or Conductance of Insulating Materials
ASTM D 412	Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension
ASTM D 471	Rubber Property - Effects of Liquids
ASTM D 495	High-Voltage, Low-Current, Dry Arc Resistance of Solid Electrical Insulation
ASTM D 573	Rubber - Deterioration in an Air Oven
ASTM D 792	Specific Gravity (Relative Density) and Density of Plastics by Displacement
ASTM D 1824	Apparent Viscosity of Plastisols and Organosols at Low Shear Rates by Brookfield Viscometer
ASTM D 2240	Rubber Property - Durometer Hardness

### 2.3 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

MIL-L-23699	Lubricating Oil, Aircraft Turbine Engine, Synthetic Base
MIL-H-83282	Hydraulic Fluid, Fire Resistant Synthetic Hydrocarbon Base, Aircraft
MIL-STD-2073-1	DOD Materiel, Procedures for Development and Application of Packaging Requirements