

AEROSPACE MATERIAL SPECIFICATION

SAE AMS3090

REV. B

Issued 1987-07
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Stabilized 2011-09
Superseding AMS3090A

Lubricant, Dry Film, Heat Cured, For Fasteners
Polysulfide Sealant Compatible

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 dry film lubricant in the form of lubricating solids dispersed in a resin binder and suitable solvents to produce a sprayable liquid.

1.2 Application:

This product has been used typically for lubrication of fasteners in the area of aircraft fuel tanks where contact with fuel tank sealants is likely, but usage is not limited to such applications.

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 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 2470 Anodic Treatment of Aluminum Alloys, Chromic Acid Process
AMS 2629 Fluid, Jet Reference
AMS 2825 Material Safety Data Sheets
AMS 3100 Adhesion Promoter for Polysulfide Sealing Compounds
AMS 3819 Cloths, Cleaning, for Aircraft Primary and Secondary Structural Surfaces
AMS 4041 Aluminum Alloy Sheet and Plate, Alclad, 4.4Cu - 1.5Mg - 0.60Mn (Alclad 2024 and 1-1/2% Alclad 2024-T3 Flat Sheet; 1-1/2% Alclad 2024-T351 Plate)
AMS 5515 Steel Sheet, Strip, and Plate, Corrosion Resistant, 18Cr - 8.5Ni (SAE 30302), Solution Heat Treated, High Ductility
AS1241 Fire Resistant Phosphate Ester Hydraulic Fluid for Aircraft

2.2 ASTM Publications:

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

ASTM D 1193 Reagent Water
ASTM D 2510 Adhesion of Solid Film Lubricants
ASTM D 2511 Thermal Shock Sensitivity of Solid Film Lubricants
ASTM D 2625 Endurance Life of Solid Film Lubricants (Falex)
ASTM D 2649 Corrosion Characteristics of Solid Film Lubricants

2.3 U.S. Government Publications:

Available from Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

VV-D-1078 Damping Fluid, Silicone Base (Dimethyl Polysiloxane)
CCC-C-419 Cloth, Duck, Cotton, Unbleached, Plyed-yarns, Army and Numbered
FED STD 791 Lubricant, Liquid Fuel and Related Products, Methods of Testing
MIL-C-372 Cleaning Compound, Solvent, For Bore of Small Arms and Automatic Aircraft Weapons
MIL-L-2104 Lubricating Oil, Internal Combustion Engine, Tactical Service
MIL-L-7808 Lubricating Oil, Aircraft Turbine Engines, Synthetic Base, NATO Code Number 0-148
MIL-A-8243 Anti-icing and Deicing-Defrosting Fluid
MIL-S-8802 Sealing Compound, Temperature-resistant, Integral Fuel Tanks and Fuel Cell Cavities, High-adhesion
DOD-P-16232 Phosphate Coating, Heavy, Manganese or Zinc Base (For Ferrous Metals)
MIL-C-38736 Compound, Solvent, For Use in Integral Fuel Tanks
MIL-T-81533 Trichloroethane, 1,1,1, (Methyl Chloroform) Inhibited, Vapor Degreasing
MIL-H-83282 Hydraulic Fluid, Fire Resistant, Synthetic Hydrocarbon Base, Aircraft, Metric, NATO Code Number H-537
MIL-STD-290 Packaging of Petroleum and Related Products