

AEROSPACE
MATERIAL
SPECIFICATION

AMS 1386

Issued 4-1-85
Revised

COMPOUND, SILICONE RUBBER REMOVER
Aircraft Turbine Engine Components
Room Temperature Application

1. SCOPE:

1.1 Form: This specification covers a silicone-rubber-remover compound in liquid form supplied as a ready-to-use product.

1.2 Application: Primarily for removal of silicone rubber adhesive/sealant materials from turbine engine components by immersion at room temperature. Should not be used on steel parts having hardness of 40 HRC or over.

1.3 Precautions: Remover compound may contain chemicals which, if improperly used, could be hazardous to the health and safety of operators. Protective clothing including eye shields, suitable gloves, and apron should be worn when preparing and using remover. Tanks shall be prepared and operated under conditions of adequate fume extraction and with due regard to the safety recommendations of the manufacturer of the remover together with local workshop safety regulations.

2. APPLICABLE DOCUMENTS: The following publications form a part of this specification to the extent specified herein. The latest issue of Aerospace Material Specifications and Aerospace Recommended Practices 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 2825 - Material Safety Data Sheets

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2.1.2 Aerospace Recommended Practices:

ARP 1755 - Effect of Cleaning Agents on Aircraft Engine Materials, Stock Loss Test Method

ARP 1795 - Stress-Corrosion of Titanium Alloys, Effect of Cleaning Agents on Aircraft Engine Materials

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

ASTM D1568 - Sampling and Chemical Analysis of Alkylbenzene Sulfonates

ASTM D2667 - Biodegradability of Alkylbenzene Sulfonates

ASTM F519 - Mechanical Hydrogen Embrittlement Testing of Plating Processes and Aircraft Maintenance Chemicals

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

2.3.1 Military Standards:

MIL-STD-794 - Parts and Equipment, Procedures for Packaging and Packing of

3. TECHNICAL REQUIREMENTS:

3.1 Composition: Shall be optional with the manufacturer but, when prepared in accordance with manufacturer's instructions, shall form a liquid product, with no solid sediment at room temperature, meeting the requirements of 3.2.

3.1.1 Compound containing volatile solvents shall be provided with an upper liquid seal to retard evaporation of solvent from the lower working layer. Solution make up, depth of seal if required, and solution control of the lower and seal phases shall be in accordance with manufacturer's instructions and purchaser's requirements.

3.2 Properties: Compound shall conform to the following requirements; tests shall be performed in accordance with specified test methods on the product supplied at the maximum concentration and temperature recommended by the manufacturer; if a seal is specified, tests shall be performed on the lower liquid layer through the seal:

3.2.1 Stock Loss: Test panels of alloys or electrodeposits shall not incur stock loss exceeding 0.000025 in. (0.625 μ m) per surface and plasma deposited coatings shall not incur stock loss exceeding 0.0001 in. (2.5 μ m) when tested in accordance with ARP 1755, Category 8. Where required in ARP 1755, stock loss figures shall be reported. Vendor may indicate where remover is not recommended for particular alloys or surface coatings.

3.2.2 Pitting and Intergranular Attack: Test panels and bars used for the stock loss test of 3.2.1 shall neither exhibit pitting corrosion nor show visual evidence of degradation, when examined at 50X magnification under good oblique surface lighting conditions.