



AEROSPACE MATERIAL SPECIFICATION

AMS1548™**REV. B**

Issued	1988-10
Noncurrent	1994-04
Reaf. Nonc.	2008-01
Stabilized	2017-06

Superseding AMS1548A

Cleaner, Turbine Engine Gas Path
Solvent Emulsion Type

RATIONALE

The technology is not current and it is the recommendation that the document is stabilized.

STABILIZED NOTICE

This document has been declared "Stabilized" by the SAE AMS J Aircraft Maintenance Chemicals and Materials 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.

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2017 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Tel: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
<http://www.sae.org>

SAE WEB ADDRESS:

Full document details: SAE AMS1548B

SAE values your input. To provide feedback on this Technical Report, please visit <http://standards.sae.org/AMS1548B>

Documents
Document Sharing Hub

1. SCOPE:

1.1 Form:

This specification covers a solvent-emulsion cleaner in the form of a solvent-base liquid concentrate.

1.2 Application:

Primarily for cleaning installed turbine engines by spraying diluted cleaner into the intake during a starter crank operation.

1.3 Recommended Water Requirements:

Water used during engine wash operations shall be of potable quality with not more than 100 ppm total dissolved solids and a pH of 6.0 to 8.0 and shall not exceed the following concentrations:

Element	Concentration (ppm by weight)
Sulfur	10
Chlorine	50
Sodium plus Potassium	50

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 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 2400	Plating, Cadmium
AMS 2416	Plating, Nickel-Cadmium, Diffused
AMS 2475	Protective Treatments, Magnesium Alloys
AMS 2825	Material Safety Data Sheets
AMS 4025	Aluminum Alloy Sheet and Plate, 1.0Mg - 0.60Si - 0.28Cu - 0.20Cr, (6061-0), Annealed
AMS 4037	Aluminum Alloy Sheet and Plate, 4.4Cu - 1.5Mg - 0.60Mn, (2024: -T3 Flat Sheet, -T351 Plate), Solution Heat Treated
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 4045	Aluminum Alloy Sheet and Plate, 5.6Zn - 2.5Mg - 1.6Cu - 0.23Cr (7075; -T6 Sheet, -T651 Plate), Solution and Precipitation Heat Treated
AMS 4049	Aluminum Alloy Sheet and Plate, Alclad, 5.6Zn - 2.5Mg - 1.6Cu - 0.23Cr (Alclad 7075; -T6 Sheet, -T651 Plate), Solution and Precipitation Heat Treated
AMS 4377	Magnesium Alloy Sheet and Plate, 3.0Al - 1.0Zn (AZ31B-H24), Cold Rolled, Partially Annealed
AMS 4911	Titanium Alloy Sheet, Strip, and Plate, 6Al - 4V, Annealed
AMS 4916	Titanium Alloy Sheet, Strip, and Plate, 8Al - 1Mo - 1V, Duplex Annealed
AMS 5040	Steel Sheet and Strip, 0.15 max Carbon, Deep Forming Grade
AMS 5504	Steel Sheet, Strip, and Plate, Corrosion and Moderate Heat Resistant, 12.5Cr, (SAE 51410), Annealed
AMS 5510	Steel Sheet, Strip, and Plate, Corrosion and Heat Resistant, 18Cr - 10.5Ni - 0.40Ti, (SAE 30321), Solution Heat Treated
AMS 5536	Alloy Sheet, Strip, and Plate, Corrosion and Heat Resistant, 47.5Ni - 22Cr - 1.5Co - 9.0Mo - 0.60W - 18.5Fe, Solution Heat Treated
AMS 5544	Alloy Sheet, Strip, and Plate, Corrosion and Heat Resistant, 57Ni - 19.5Cr - 13.5Co - 4.2Mo - 3.0T - 1.4Al - 0.05Zr - 0.006B, Consumable Electrode or Vacuum Induction Melted, Annealed
AMS 5608	Alloy Sheet, Strip, and Plate, Corrosion and Heat Resistant, 40Co - 22Cr - 22Ni - 14.5W - 0.07La, Solution Heat Treated

2.1.2 Aerospace Recommended Practices:

ARP1512	Corrosion of Aluminum Alloys By Aircraft Maintenance Chemicals, Sandwich Test
ARP1862	Cleaning Efficiency of Turbine Engine Gas Path Cleaners, Laboratory Test Method

2.2 ASTM Publications:

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

ASTM D93	Flash Point by Pensky-Martens Closed Tester
ASTM D445	Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)
ASTM D1141	Substitute Ocean Water
ASTM D1193	Reagent Water
ASTM D1568	Sampling and Chemical Analysis of Alkylbenzene Sulfonates
ASTM D2667	Biodegradability of Alkylbenzene Sulfonates
ASTM D4191	Sodium in Water by Atomic Absorption Spectrophotometry
ASTM D4192	Potassium in Water by Atomic Absorption Spectrophotometry
ASTM E70	pH of Aqueous Solutions with the Glass Electrode
ASTM E442	Chlorine, Bromine, or Iodine in Organic Compounds by Oxygen Flask Combustion
ASTM F483	Total Immersion Corrosion Test for Aircraft Maintenance Chemicals
ASTM F484	Stress Cracking of Acrylic Plastics in Contact with Liquid or Semi-Liquid Compounds
ASTM F502	Effects of Cleaning and Chemical Maintenance Materials on Painted Aircraft Surfaces
ASTM F503	Preparing Aircraft Cleaning Compounds, Liquid Type, for Storage Stability Testing
ASTM F519	Mechanical Hydrogen Embrittlement Testing of Plating Processes and Aircraft Maintenance Chemicals
ASTM F945	Stress-Corrosion of Titanium Alloys by Aircraft Engine Cleaning Materials

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 Specifications:

MIL-S-7952	Steel, Sheet and Strip, Uncoated, Carbon (1020 and 1025) (Aircraft Quality)
MIL-G-9954	Glass Beads, For Cleaning and Peening
MIL-C-81751	Coating, Metallic Ceramic
MIL-C-85704	Cleaning Compound, Turbine Engine Gas Path

2.3.2 Military Standards:

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