



AEROSPACE MATERIAL SPECIFICATION

AMS1382™

REV. B

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Stabilized 2020-07

Superseding AMS1382A

Oxide Remover Compound, Acidic
Aircraft Turbine Engine Components

RATIONALE

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

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Documents

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1. SCOPE:

- 1.1 Form: This specification covers an acidic oxide remover compound in the form of a ready-to-use liquid, liquid concentrate, or water-soluble powder for dilution with water or for dilution with mineral acid as defined by the compound manufacturer.
- 1.2 Application: Primarily for removal of oxidation products from corrosion-resistant steels, nickel alloys, and cobalt alloys by immersion in a solution of the compound at elevated temperature or room temperature as recommended by the manufacturer of the product.
- 1.3 Classification: Compounds conforming to this specification are classified as follows:
 - Type I - Ready-to-use liquid
 - Type II - Liquid concentrate
 - Type III - Water-soluble powder
- 1.3.1 Type I shall be supplied unless Type II or Type III is ordered.
- 1.4 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.

- 1.5 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 .

2.1.1 Aerospace Material Specifications:

AMS 2825 Material Safety Data Sheets

2.1.2 Aerospace Recommended Practices:

ARP1755 Effect of Cleaning Agents on Aircraft Engine Materials, Stock Loss Test Method

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

ASTM D 1568 Sampling and Chemical Analysis of Alkylbenzene Sulfonates

ASTM D 2667 Biodegradability of Alkylbenzene Sulfonates

- 2.3 U.S. Government Publications: Available from Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

2.3.1 Military Standards:

MIL-STD-2073-1 - DOD Materiel, Procedures for Development and Application of Packaging Requirements

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. Solution make up and control 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.