



AEROSPACE MATERIAL SPECIFICATION

AMS1383™**REV. B**

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Superseding AMS1383A

Oxide Conditioner, Alkaline Permanganate
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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1. SCOPE:

1.1 Form:

This specification covers an alkaline permanganate oxide conditioner in the form of a water-soluble powder or a liquid for dilution with water.

1.2 Application:

This product has been used typically for conditioning of oxidation products on aircraft turbine engine components fabricated from steels, nickel alloys, and cobalt alloys by immersion in a solution of the cleaner at elevated temperature, but usage is not limited to such applications.

1.3 Classification:

Conditioners conforming to this specification are classified as follows:

Type 1 - Water-soluble powder

Type 2 - Liquid

1.3.1 Type 1 shall be supplied unless Type 2 is ordered.

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.

- 1.4.1 Precautions: Conditioner 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 conditioner. 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 conditioner 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 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
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 DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

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. When prepared in accordance with manufacturer's instructions, the compound shall form a liquid product, with no solid sediment at room temperature, and shall meet the requirements of 3.2. Solution make up and control procedures shall be in accordance with manufacturer's instructions and purchaser's requirements.