



AEROSPACE MATERIAL SPECIFICATION	AMS1454™	REV. A
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	Superseding AMS1454	
Cleaning/Scale Removing Compound Aircraft Vacuum Toilet Systems		

RATIONALE

The specification is not currently being called out by any suppliers or customers and there do not appear to be any updates needed at this time.

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Documents

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1. SCOPE

1.1 Form

This specification covers a cleaning/scale removing compound in the form of a liquid concentrate or gel.

1.2 Application

This cleaner/scale remover has been used typically as an additive in aircraft toilet systems to control the formation of scale and/or remove previous build-up of scale.

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 issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

AMS2825 Material Safety Data Sheets

AMS4049 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-P-83310 Plastic Sheet, Polycarbonate, Transparent

2.2 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM D 56 Flash Point by Tag Closed Tester

ASTM D 471 Rubber Property - Effect of Liquids

ASTM D 1193 Reagent Water

ASTM D 1568 Sampling and Chemical Analysis of Alkylbenzene Sulfonates

ASTM D 2667 Biodegradability of Alkylbenzene Sulfonates

ASTM F 483 Total Immersion Corrosion Test for Aircraft Maintenance Chemicals

ASTM F 484 Stress Cracking of Acrylic Plastics in Contact with Liquid or Semi-Liquid Compounds

ASTM F 485 Effects of Cleaners on Unpainted Aircraft Surfaces

ASTM F 502 Effects of Cleaning and Chemical Maintenance Materials on Painted Aircraft Surfaces

ASTM F 1110 Sandwich Corrosion Test

2.3 APHA Publications

Available from American Public Health Association, 800 I Street, NW, Washington, DC 20001, Tel: 202-777-2742, www.apha.org.

Standard Methods for Examination of Water and Waste Water

3. TECHNICAL REQUIREMENTS

3.1 Material

Shall consist of a biodegradable material with suitable additives, such as cleaner/scale removers necessary to provide a cleaner/scale remover meeting the requirements of 3.2.

3.1.1 The cleaner/scale remover shall dilute readily with water with minimum agitation.

3.2 Properties

The cleaner/scale remover shall conform to the following requirements; tests shall be performed in accordance with specified test methods.

3.2.1 Cleaner/Scale Removers as Received in Concentrate Form

Shall be tested as the liquid concentrate, except that if the scale remover is received in the form of a gel, it shall be dissolved at the ratio of 1 part mover to 5 parts ASTM D 1193, Type IV, water. If a residue (undissolved) is present, filter through a #40 filter paper prior to using for tests. However, such solids should be soluble at intended use dilution.