



AEROSPACE MATERIAL SPECIFICATION

AMS1451™**REV. C**

Issued 1978-10
Revised 2018-10
Reaffirmed 2024-11

Superseding AMS1451B

(R) Disinfectant, Aircraft
For Use in Cargo Compartments

RATIONALE

Long time storage test language needed to be harmonized with similar specifications. Sampling plan referred to a specific chemical and did not contain the same testing called out in this specification. Identification requirements need to include U.S. EPA number. Specification references needed to be updated.

AMS1451C has been reaffirmed to comply with the SAE Five-Year Review policy.

1. SCOPE

1.1 Form

This specification covers disinfectants or chemicals for use in disinfecting aircraft after carrying livestock.

1.2 Application

This material has been used typically as a disinfectant for aircraft where required by the U.S. Department of Agriculture, the World Health Organization, or member states, but usage is not limited to such applications.

1.3 This specification deals only with the effect of the fluid on the materials of construction used in aircraft and does not address the efficacy of the fluid or approval to use this product in various locales. For example, in the United States of America (USA), any fluid purporting to have disinfecting or sanitizing properties must be registered with the Environmental Protection Agency. Similarly in the European Union (EU) all active substances in any biocidal products used to treat or contained in an article must be approved for use. It is the responsibility of the supplier to ensure the product meets the regulations of the locales where it will be used.

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 processes 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.

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Full document details: SAE AMS1451C

For more information on this standard, visit
<https://www.sae.org/standards/content/AMS1451C/>

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2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

AMS2820	Aerosol Packaging
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 D56	Flash Point by Tag Closed Tester
ASTM D1193	Reagent Water
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 F1104	Preparing Aircraft Cleaning Compounds, Liquid Type, Water Base, For Storage Stability Testing
ASTM F1110	Sandwich Corrosion Test

2.3 Other Publications

ANSI Z400.1/Z129.1	Hazardous Workplace Chemicals - Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation
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3. TECHNICAL REQUIREMENTS

3.1 Composition

Shall be optional with the manufacturer, and shall be a uniform mixture meeting the requirements of 3.2.

3.1.1 Disinfectant shall comply with registration, efficacy, toxicological, and other requirements of:

World Health Organization and Member States, as required

United States Environmental Protection Agency

United States Department of Agriculture

United States Public Health Service

3.2 Properties

Disinfectant shall conform to the following requirements; tests shall be performed in accordance with specified test methods on the disinfectant supplied in concentrated form: