



AEROSPACE MATERIAL SPECIFICATION

AMS1426™

REV. D

Issued 1980-04
Revised 1993-10
Cancelled 2016-08

Superseding AMS1426C

Fluid, Deicing/Anti-Icing, Runways and Taxiways
Glycol Base

RATIONALE

AMS1426 is a specification for runway deicing fluid in liquid form formulated with a specific class of compounds, namely, glycols. AMS1426 was introduced in 1980 and its latest version AMS1426C was last revised in 1993. In 1995 a new specification for liquid runway deicing fluid was introduced, AMS1435. AMS1435 is a generic performance based specification where the runway deicing fluid can be formulated with any class of compounds that fulfills the specification requirements. When introduced, AMS1435 was meant to replace all runway deicing fluid formulated with specific class of compounds. As of January 2014, AMS1435 is an active specification undergoing regular updates. AMS1435 has replaced AMS1426. AMS1426 is not supported, is obsolete and, therefore, must be cancelled.

CANCELLATION NOTICE

This Technical Report has been declared "CANCELLED" as of August 2016 and has been superseded by AMS1435. By this action, this document will remain listed in the respective index, if applicable. Cancelled Technical Reports are available from SAE.

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Documents

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1. SCOPE:

1.1 Form:

This specification covers a glycol-base deicing/anti-icing material in the form of a liquid.

1.2 Application:

This fluid has been used typically on airport runways and taxiways for the prevention and removal of frozen deposits of frost and ice, but usage is not limited to such applications.

1.3 Precautions:

1.3.1 Deicing/anti-icing formulations may be mildly toxic and contact with human skin and eyes should be avoided. Prolonged exposure to concentrations exceeding the established threshold limit values (TLV) for the product or its major components should also be avoided.

1.3.2 Caution should be exercised in the use of aqueous glycol deicing/anti-icing solutions in and around aircraft having silver or silver-coated electrical/electronic circuitry. Dehydrolysis reactions which result in fire may occur when such aqueous glycol solutions contact silver or silver-coated circuits, such as defectively insulated wires, switches, or circuit breakers, which are carrying direct current.

1.3.3 Airport authorities should ascertain the friction coefficient of the runway after application of the deicing/anti-icing fluid.

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 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 2470 Anodic Treatment of Aluminum Alloys, Chromic Acid Process
AMS 2475 Protective Treatments, Magnesium Alloys
AMS 2825 Material Safety Data Sheets
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 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 4376 Magnesium Alloy Plate, 3.0Al - 1.0Zn (AZ31B-H26), Cold Rolled and Partially Annealed
AMS 4911 Titanium Alloy Sheet, Strip, and Plate, 6Al - 4V, Annealed
MAM 4911 Titanium Alloy Sheet, Strip, and Plate, 6Al - 4V, Annealed (Metric)
AMS 5045 Steel Sheet and Strip, 0.25 Carbon maximum, Hard Temper

2.2 ASTM Publications:

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

ASTM C 672 Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals
ASTM D 93 Flash Point by Pensky-Martens Closed Tester
ASTM D 891 Specific Gravity of Liquid Industrial Chemicals
ASTM D 1177 Freezing Point of Aqueous Engine Coolants
ASTM D 1193 Reagent Water
ASTM D 1568 Sampling and Chemical Analysis of Alkylbenzene Sulfonates
ASTM D 4057 Manual Sampling of Petroleum and Petroleum Products
ASTM D 4177 Automatic Sampling of Petroleum and Petroleum Products