



AEROSPACE INFORMATION REPORT

AIR6211™

REV. B

Issued 2012-04
Revised 2017-05
Cancelled 2022-10

Superseded by AS6211

Ice Penetration Test Method for Runways and Taxiways
Deicing/Anti-Icing Chemicals

RATIONALE

This SAE Aerospace Information Report AIR6211 does not fit the definition of an AIR document; therefore, it is cancelled and superseded by the SAE Aerospace Standard document AS6211, which contains specific test methods and protocols. The new SAE Aerospace Standard document contains additional information on the preparation of reference control solutions. The new document also incorporates some editorial changes.

CANCELLATION NOTICE

This Technical Report has been declared "CANCELLED" as of October 2022 and has been superseded by AS6211. 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

This test method provides stakeholders (runway deicing chemical manufacturers, users, regulators, and airport authorities) with a relative ice penetration capacity of runway deicing/anti-icing chemicals, by measuring the ice penetration as a function of time. Such runway deicing/anti-icing chemicals are often also used on taxiways and other paved areas.

This test method does not quantitatively measure the theoretical or extended time of ice penetration capability of ready-to-use runway deicing/anti-icing chemicals in liquid or solid form.

1.1 Minimum Requirements

This method sets the minimum testing requirements for the determination of ice penetration capabilities of AMS1431 and AMS1435 runway deicing/anti-icing chemicals in liquid and solid form as a function of time and temperature, under controlled laboratory conditions.

1.2 Hazardous Materials

This test may involve the use of hazardous materials, operations, and equipment. This standard does not address the safety problems associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

1.3 Standard Units

The values stated in SI units are to be regarded as the standard.

2. APPLICABLE DOCUMENTS

The following publications form a part of this document 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. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

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.

AMS1431 Compound, Solid Runway and Taxiway Deicing/Anti-Icing

AMS1435 Fluid, Generic, Deicing/Anti-Icing Runways and Taxiways

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 D1193 Specification for Reagent Water

ASTM D1747 Refractive Index of Viscous Materials