AMIL’S IMPROVED TESTING CAPABILITIES
AMS1424/AMS1428/AMS1431/AMS1435
EFFECTS ON AIRCRAFT MATERIALS

AMI performs most of the effects on aircraft materials tests, as described in SAE aerospace material specifications AMS1424, AMS1428, AMS1431 and AMS1435.

This includes:
• Sandwich corrosion
• Total immersion corrosion
• Low-embrittling cadmium plate
• Cadmium plate cyclic corrosion
• Effects on transparent plastics
• Effects on unpainted surfaces
• Rinsibility
• Effects on carbon brake systems
• Runway concrete scaling resistance

ENVIRONMENTAL INFORMATION

AMI can provide environmental compatibility testing.

This includes:
• Biodegradability
• Biological oxygen demand
• Chemical oxygen demand
• Ecological behaviour
• Trace contaminants.
• Total water content

Contact us for more information at: info@amillaboratory.ca
PHYSICAL PROPERTIES
AMIL can provide various physico-chemical analyses according to AMS1424, AMS1428, AMS1431 and AMS1435.

This includes:
• Flash point
• Specific gravity
• pH
• Refractive index
• Surface tension
• Freezing point
• Viscosity

STABILITY TESTING
In addition to AMS1424/AMS1428, the following stability tests are available:
• Thermal and hard-water stability
• Foam stability
• Exposure to dry air
• Dry-out by exposure to cold dry air
• Successive dry-out and rehydration
• Thin-film thermal stability
• Cold-storage stability

AMIL also offers:
• Storage stability
• As per AMS1424/AMS1428 for aircraft de/anti-icing fluids and AMS1431/AMS1435 for runway and taxiway de/anti-icing chemicals.

ASTM C1028 Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method.

ASTM D93 Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester.


ASTM D1176 Sampling and Preparing Aqueous Solutions of Engine Coolant or Antitrust for Testing Purposes.


ASTM D3278 Standard Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus.


ASTM D4587 Standard Practice for Fluorescent UV-Condensation Exposures of Paint and Related Coatings.

ASTM D7066 Standard Test Method for Dimer/Trimer of Chlorotrifluoroethylene (S-316) Recoverable Oil and Grease and Nonpolar Material by Infrared Determination.


ASTM F483 Total Immersion Corrosion Test for Aircraft Maintenance Chemicals.


ASTM F485 Standard Practice for Effects of Cleaners on Unpainted Aircraft Surfaces.


ASTM F945 Stress-Corrosion of Titanium Alloys by Aircraft Engine Cleaning Materials.


ASTM F1110 Sandwich Corrosion Test.

ASTM F1111 Corrosion of Low-Embrittling Cadmium Plate by Aircraft Maintenance Chemicals.

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