



ACF-50 Technical Data

ACE-50

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enetrates the corrosion.

AFTAI

With the moisture gone the

corrosion process stops ACF-50 remains active to prevent

corrosion from growing

ACF-50, Anti Corrosion Formula, is a state of the art anti-corrosion lubricant compound, specifically designed for the Aero Space Industry. ACF-50's unique chemistry offers excellent penetration, coupled with an unmatched 24 months of "active" corrosion protection.

Designed specifically to perform as both a Corrosion Inhibiting Compound (CIC) and a Corrosion Prevention Compound (CPC). ACF-50's blend of non-flammable, non-toxic, polar bonding inhibitors and moisture-displacing additives penetrate deep into corrosion cells to actively remove electrolytes. No longer in contact with the metal surface, these electrolytes evaporate. ACF-50's resulting dielectric fluid film acts as an "off-switch" for the corrosion process.



- Complete anti-corrosion solutions for airframe, avionics and ground support equipment.
- Significantly reduces corrosion events in both Structure & Avionics.
- Ultra Thin Film promotes weight reduction, improving payload capacity.
- ACF-50 is blended utilizing superior quality control ISO 9002 standards and has an excellent customer satisfaction record with a 0.0% return rate.
- Removal not required for re-application, creates no HAZMAT residue.
- <sup>o</sup> ACF-50 is Non-Toxic according to EPA / OSHA standards.

Cargo & Regional Airlines

Spray into: wing sections, landing gear compartments, cargo door, brackets, garbage chutes, galleys, lavatory areas, belly skin sections, main spar sections, seat tracks.

Float Equipped & Amphibious Spray into: floats, wing sections, bilge area, exterior of motors, connectors.

Turbo Props / Business Jets Spray into: trim drum actuators, landing gear and compartments, wheel hubs, thrust reverse mechanisms. Wipe





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## ACF-50 Applications

# FUSELAGE • STABILIZERS • AVIONICS • MICRO SWITCHES **CANNON PLUGS • ANTENNA MOUNTS**

### Single Engine & Light Twins

Spray into: wing sections, hinges, teleflex cables, air vent cables, trim cables, throttle cables, battery boxes, engine compartments

## Rotorwing Aircraft

Spray into: tail boom section, engine gear, air vent cables, rotor



### ACF-50 Corrosion Abatement Procedure 2024-T3 Aluminum Fogged in a Sulfurous Acid/Salt for 192 hours



Panels pretreated with ACF-50 showed an average weight loss of only 1.9 mg.

Conclusion: ACF-50 prevents the formation of new corrosion cells.



Untreated panels showed and average weight loss of 150.1 mg.

Conclusion: Untreated panels corrode rapidly.



Untreated panels exposed for 96 hours, then treated with ACF-50 and exposed for an additional 96 hours showed a loss of only

#### Conclusion:

ACF-50 stops the corrosion process on contact.

#### ACF-50 Performance Qualified

MIL-PRF 81309		Commercial Aircraft Test Approvals		
CHARACTERISTICS / REQUIREMENTS	RESULTS	TEST IDENTITY	TEST METHOD	RESULTS
- Minimum flash point / 60°C (140°F)	Conforms / 175°F	Airbus Industrie	- Corrosion Resistance To: Turco Toilet Fluid, Orange Juice, Coke, Coffee, De-Icing Fluid 3:4-1:2-1:4, %5 NaOH, %5 HCI, 5% HNO <sup>3</sup> , %10 CH <sup>3</sup> COOH, %45 Ethanol	
- Synthetic Sea Water Displacement / No visible corrosion	Conforms	INA 007.10138		
- Removability / Not more than 3 cycles to remove	Conforms	BMS 3-23E Table II	- Corrosion Inhibiting Charactertistics MIL-C-1617D / ASTM G34	Pass
- Abrasives / Not present	Conforms			
- Maximum Film Thickness / Type II: 0.0005 inches	Conforms	BMS 3-23E Table II	- Water Displacement Ability / MIL-C-1617D	Pass
- Sprayability / Sprayable	Conforms	BMS 3-23E Table II	- Functional Penetration Test	Pass
- Corrosivity / No visible corrosion	Conforms	Douglas Aircraft CSD #1	- Immersion Corrosion Test / ASTM F 483	Conforms
- Staining / No visible evidence of staining	Conforms	Douglas Aircraft CSD #1	- Sandwich Corrosion Test	Conforms
- Minimum Dielectric Breakdown / 25,000 volts	Conforms / 38,000 volts	Douglas Aircraft CSD #1	- Painted Surfaces / ASTM F 502	Conforms
- Mixability of Compounds / No evidence of separation	Conforms	Douglas Aircraft DMS 2150	- Salt Fog Exposure/ ASTM B 117	Conforms
- Lubricity of Compounds / Less than 0.20	Conforms	Douglas Aircraft DMS 2150	- Viscosity / ASTM D 445	Conforms
- Effect on Electric Components / No change	Conforms	MISC.	- Humidity Resistance / AMS 3066B	Conforms
- Effect on Electric Connectors / No increase in resistance	Conforms	MISC.	- Polymide Insulated Wire / MIL-C-87937B	Conforms

### ACF-50 OEM Engine & Airframe Approvals

BOMBARDIER DASH 8 100-300 Corrosion Preventative Compound Electrical System - SYD-8-20-001 Structural AMM-51-31-00 REF 13-16 BAMS 565-006 TYPE III

ATR REGIONAL TRANSPORT • ATR 42-72 Corrosion Protection Ref. JIC-122351-PRO-10 000

BAE SYSTEMS • BAE 146-100 Corrosion Preventative Compound Material Spec 89/042



EMBRAER / EM RJ 130-145 Periodic Lubrication of Landing Gear SNL 145-32-0035 Nov/2008 HAWKER-BEECHCRAFT / BEECH 1900



HAWKER-BEECHCRAFT / BEECH 1900C-D Corrosion Control Manual 114-590021-197

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#### ACF-50 Health & Safety



#### Scan QR code for Safety Data Sheet

Operators should use standard safety precautions when using ACF-50. Refer to Safety Data Sheet for complete health and safety information.



# AEROSPACE



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