

Complete Anti-Corrosion Solutions For Airframe, Avionics and Ground Support Equipment



KILLS CORROSION ON CONTACT

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). It is an ultra-Thin Fluid Film Compound (TFFC) that actively treats metal using advanced polar bonding technology. ACF-50's synthetic inhibitors and active chemistry penetrates through the oxide deposits to the base of the corrosion cell where it emulsifies, encapsulates, and then lifts the electrolyte away from the metal surface. ACF-50 allows this moisture to evaporate while providing an atmospheric barrier that prevents further moisture contact. With the electrolyte removed the corrosion process is halted.

ACF-50 actively penetrates and "creeps" into the tightest seams, lap joints, micro cracks, and around rivet heads, displacing moisture and other corrosive fluids in these corrosion prone areas. ACF-50's resulting dielectric fluid film acts as an 'off-switch' for the corrosion process.



Protects, Penetrates, Lubricates All Metals & Electronics

Prevents and Deactivates Existing Corrosion

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

	<p>Panels pretreated with ACF-50 showed an average weight loss of only 1.9 mg.</p>		<p>Untreated panels showed and average weight loss of 150.1 mg.</p>		<p>Untreated panels exposed for 96 hours, then treated with ACF-50 and exposed for an additional 96 hours showed a loss of only 69.8 mg.</p>
<p>Conclusion: <i>ACF-50 prevents the formation of new corrosion cells.</i></p>		<p>Conclusion: <i>Untreated panels corrode rapidly.</i></p>		<p>Conclusion: <i>ACF-50 stops the corrosion process on contact.</i></p>	

ACF-50 Performance Qualified

MIL-PRF 81309

CHARACTERISTICS / REQUIREMENTS	RESULTS	CHARACTERISTICS / REQUIREMENTS	RESULTS
- Minimum flash point / 60°C (140°F)	Conforms / 175°F	- Corrosivity / No visible corrosion	Conforms
- Synthetic Sea Water Displacement / No visible corrosion	Conforms	- Staining / No visible evidence of staining	Conforms
- Removability / Not more than 3 cycles to remove	Conforms	- Minimum Dielectric Breakdown / 25,000 volts	Conforms / 38,000 volts
- Abrasives / Not present	Conforms	- Lubricity of Compounds / Less than 0.20	Conforms
- Maximum Film Thickness / Type II: 0.0005 inches	Conforms	- Effect on Electric Components / No change	Conforms
- Sprayability / Sprayable	Conforms	- Effect on Electric Connectors / No increase in resistance	Conforms

Reduced Maintenance Costs

Improved Reliability

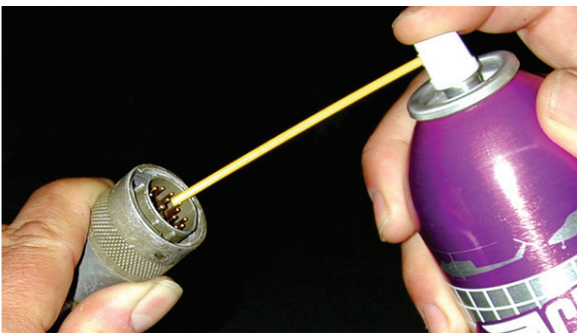


ACF-50 treatments every two years puts corrosion in a permanent holding pattern. While keeping electrical connectors/systems moisture free.

ACF-50 is best applied during the annual inspection, when the aircraft is already opened up. We recommend that the treatment process be the last step in completing the annual. If the aircraft is between annuals, it must be prepared for the ACF-50 process. Opening all of the proper access points first will save time and energy overall, while ensuring the most complete treatment of the airframe. Your goal is to treat as much of the aircraft's interior metal surface as possible. Flaps, rudders, ailerons, and stabilizers are prime areas for corrosion to occur.



Single Engine & Light Twins



Engine Compartment	Bulkheads / Support Structures
Door, Latch, Hinges	Belly Of The Aircraft
Door frame	Nose Gear / Wheel Well
Battery Boxes	Teleflex Cables
Throttle Cables	Air Vent Cables
Rear Cabin	Rear Wheel Wells
Wing / Tail Assembly	Wing Root
Ailerons	Rudder
Flaps	Elevator
Horizontal / Vertical Stabilizers	Strut

ACF-50 can be used freely around avionics and aircraft electrical systems, as it contains nothing that can create an electrical path or detune sensitive radio equipment.

All components on the aircraft, grounding points, plugs, and micro switches.

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

Rotorwing Aircraft

Spray into: tail boom section, engine gear, air vent cables, rotor head, grip areas. Spray or wipe on blades.

Turbo Props / Business Jets

Spray into: trim drum actuators, landing gear and compartments, wheel hubs, thrust reverse mechanisms. Wipe on nacelles.

Float Equipped & Amphibious

Spray into: floats, wing sections, bilge area, exterior of motors, connectors.

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.

OEM APPROVALS

AEROCOMMANDER • AIR TRACTOR • ATR REGIONAL • BAE SYSTEMS • BOEING HELICOPTER • BELL HELICOPTER TEXTRON • BOMBARDIER • BRITISH AEROSPACE • CANADAIR
 CESSNA • CIRRUS • CONCORDE BATTERY • EMBRAER • ENSTROM • ERICKSON • EXTRA AIRCRAFT • GE ENGINES • GULFSTREAM AEROSPACE • HAWKER-BEECHCRAFT
 HILLER AIRCRAFT • LAKE AIRCRAFT • LOCHEED MARTIN • MCDONNELL DOUGLAS CORP • MD HELICOPTER • MOONEY AIRCRAFT • PILATUS AIRCRAFT • PIPER
 PRATT & WHITNEY • ROBINSON • ROLLS ROYCE • SAFRAN ENGINES • SIKORSKY • SCHWEIZER • VAN AIRCRAFT • WIPAIRE



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.



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