



## Our Story...

Lear Chemical has been successfully developing and compounding anti corrosion lubricants and greases since 1979. For over thirty years we have been effectively solving corrosion related problems in the Automotive, Aviation, Industrial, Marine, Powersports and Recreational industries. Our technical success is balanced by combining laboratory testing with specific field evaluations to ensure that each formula produced meets advertised claims and customer expectations.

As a value added service Lear Chemical offers custom formulating services for clients desiring Private Label formulations that incorporate proven technologies, found in our commercial product lines. Research and development is not just a part of our name...  
It's who we are.



## Why Consider ACF-50:

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.
- ◇ ACF-50 is Non-Toxic according to EPA / OSHA standards.
- ◇ VOC compliant world wide.



# KILLS CORROSION ON CONTACT

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

## ACF-50 Applications

### 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 head, grip areas. Spray or wipe on blades.

### 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 on nacelles.

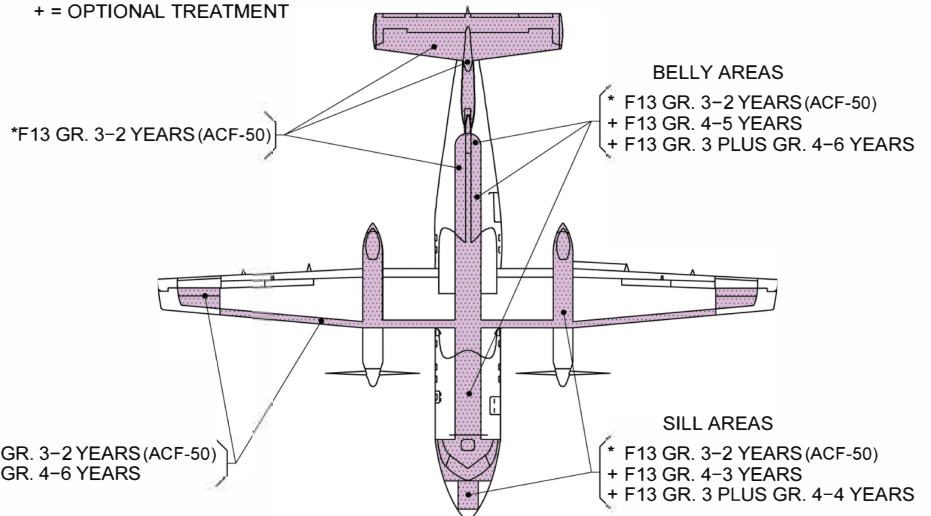


### BOMBARDIER

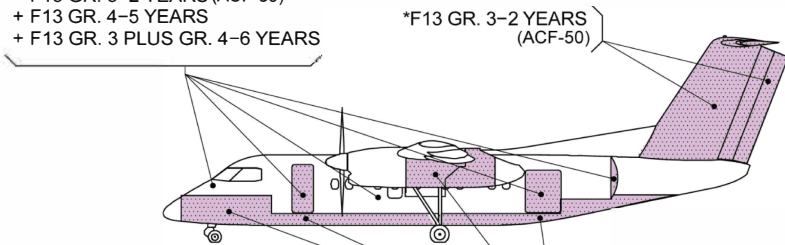
DASH 8 100-300

AIRCRAFT MAINTENANCE MANUAL

\* = STANDARD TREATMENT  
+ = OPTIONAL TREATMENT



\* F13 GR. 3-2 YEARS (ACF-50)  
+ F13 GR. 4-5 YEARS  
+ F13 GR. 3 PLUS GR. 4-6 YEARS



### SILL AREAS

\* F13 GR. 3-2 YEARS (ACF-50)  
+ F13 GR. 4-3 YEARS  
+ F13 GR. 3 PLUS GR. 4-4 YEARS

**PROVEN  
PROTECTION**  
FOR OVER 30 YEARS

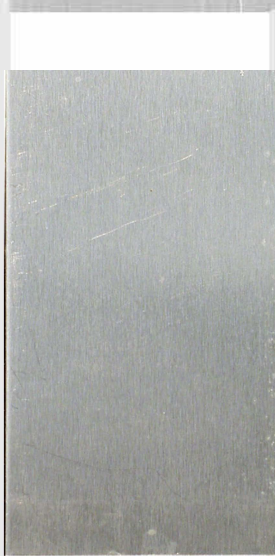
**ACF-50 "The Professionals Choice" gives you the peace of mind,  
that your investment is receiving the best possible protection.**

# Prevents and Deactivates Existing Corrosion

## ACF-50 Corrosion Abatement Procedure

2024-T3 Aluminium Fogged in a Sulfurous Acid/Salt For 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 an 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 **69.8 mg.**



**Conclusion:**  
*ACF-50 stops the corrosion process on contact.*

## ACF-50 Performance Qualified

### MIL-PRF 81309

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

### Additional Test Data

TEST IDENTITY	TEST METHOD	RESULTS
<b>BMS 3-23E</b>	- Flash Point / <b>ASTM D93</b>	Pass
<b>BMS 3-23E</b>	- Sprayability / <b>MIL-C-1617D</b>	Pass
<b>BMS 3-23E</b>	- Low Temperature Adhesion / <b>MIL-C-1617D</b>	Pass
<b>BMS 3-23E</b>	- Nonvolatile Content / <b>ASTM D1644</b>	Pass
<b>Douglas Aircraft CSD #1</b>	- Painted Surfaces / <b>ASTM F 502</b>	Conforms
<b>Douglas Aircraft CSD #1</b>	- Stress Cracking Acrylic Plastics / <b>ASTM F 484</b>	Conforms
<b>Douglas Aircraft DMS 2150</b>	- Product Composition / <b>ASTM D-1644A</b>	Conforms
<b>Douglas Aircraft DMS 2150</b>	- Toxicity / <b>ASTM B-117</b>	Conforms
<b>Volatile Organic Content</b>	- California Air Quality Compliant / <b>ASTM 2369</b>	166.9g/L
<b>Water Displacement Ability</b>	- <b>MIL-C-1617D</b>	Conforms
<b>Corrosion Inhibiting</b>	- FED-STD 791 / <b>ASTM G 34</b>	Pass
<b>Airbus Industrie TNA 007.10138</b>	- <b>Corrosion Resistance To:</b> Turco Toilet Fluid, Orange Juice, Coke, Coffee, De-Icing Fluid 3:4-1:2-1:4, %5 NaOH, %5 HCl, 5% HNO <sub>3</sub> , %10 CH <sub>3</sub> COOH, %45 Ethanol	

**Reduced Maintenance Costs**  
**Improved Reliability**





## 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



## EMBRAER / EM RJ 130-145

Periodic Lubrication of Landing Gear  
SNL 145-32-0035 Nov/2008



## BAE SYSTEMS • BAE 146-100

Corrosion Preventative Compound  
Material Spec 89/042



## HAWKER-BEECHCRAFT / BEECH 1900C-D

Corrosion Control  
Manual 114-590021-197



**AEROCOMMANDER**

**AIR TRACTOR**

**BOEING HELICOPTER**

**BELL HELICOPTER TEXTRON**

**BRITISH AEROSPACE**

**CANADAIR**

**CESSNA**

**CIRRUS**

**CONCORDE BATTERY**

**ENSTROM**

**ENSTROM**

**ERICKSON**

**EXTRA AIRCRAFT**

**GE ENGINES**

**GULFSTREAM AEROSPACE**

**HILLER AIRCRAFT**

**LAKE AIRCRAFT**

**LOCKHEED MARTIN**

**MCDONNELL DOUGLAS CORP**

**MD HELICOPTER**

**MOONEY AIRCRAFT**

**PILATUS AIRCRAFT**

**PIPER**

**PRATT & WHITNEY**

**ROBINSON**

**ROLLS ROYCE**

**SAFRAN ENGINES**

**SIKORSKY**

**SCHWEIZER**

**VAN AIRCRAFT**

**WIPAIRE**

The FAA also recognizes ACF-50 as a "Suitable Corrosion Preventative Compound"



**A treatment with ACF-50 every two years puts  
airframe corrosion in a permanent holding pattern...**

**13 oz Aerosol  
Part #: 100032**



**32 Bottle with Spray Atomizer  
Part #: 100013**



**4Ltr / 5 Gallon Bulk Part #: 100004**



**20Ltr / 20 Gallon Bulk Part #: 100020**



**205Ltr / 50 Gallon Bulk Part #: 10205  
114Ltr / 30 Gallon Bulk Part #: 10114**



**MSDS**

**AEROSOL**

Shipping Classifications  
Ground - Non Regulated, Non Hazardous,  
Non Flammable, Non Toxic  
Air - UN 1950-CLASS 2.2 Non Flammable Gas  
Harmonized Code # 3403.19.1000

**BULK**

Shipping Classifications  
Non Regulated, Non Hazardous,  
Non Flammable, Non Toxic  
Harmonized Code # 3403.19.1000



parts@kadexaero.com / Peterborough 1-705-742-9725 / Calgary 1-403-250-5241 / [www.kadexaero.com](http://www.kadexaero.com)

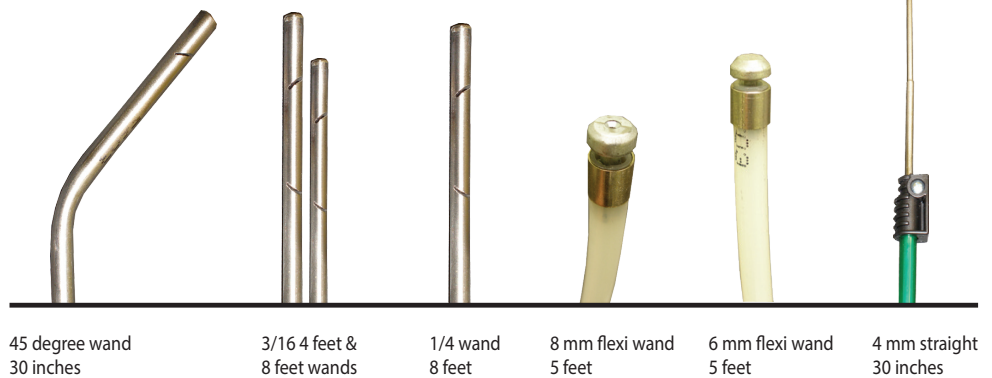
## Complete Anti-Corrosion Solutions For Airframe, Avionics And Ground Support Equipment.



- ACF-50 is a blend of ultra-pure base stocks and speciality corrosion inhibitors and surfactants
- Film thickness for ACF-50 is 0.00026

### Hand Held Spray System Part #: 50000

Both Systems Includes Bullet Tip, 7 Application Wands & Training DVD



### Standard Spray System Part #: 50003



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