

AIRCRAFT PARTS SALES & SERVICE

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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 is a nationally recognized brand name with a loyal customer base.
- A 28 year time tested, proved record of performance that Government and Fleet operators depend on.
- ACF-50 is blended utilizing superior quality control ISO 9002 standards and has an excellent customer satisfaction record with a 0.0% return rate.
- Sold in multiple packaging sizes to suit a variety of market needs.
- Complete anti-corrosion solutions for both airframe, avionics and group support equipment.
- ACF-50 is Non-Toxic according to EPA / OSHA standards.
- VOC compliant world wide.
- Complete technical support for product application is available.
- On time shipping.
- EDI experienced.





OEM APPROVALS

AEROCOMMANDER

AIR TRACTOR

ATR REGIONAL TRANSPORT

BOEING HELICOPTER

BOMBARDIER REGIONAL AIRCRAFT DIVISION

BELL HELICOPTER TEXTRON

BRITISH AEROSPACE

CANADAIR

CESSNA

CIRRUS

CONCORDE BATTERY CORP

EMBRAER

ENSTROM

ERICKSON

EXTRA AIRCRAFT

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

SIKORSKY

SCHWEIZER

VANS AIRCRAFT





PRODUCT SPECIFICATIONS

ACF-50 PERFORMANCE QUALIFIED Mil-C-81309E Amd 3,Type II

Test Para.. Found Characteristics **Requirements** Conforms - Minimum flash point 4.7.1 60°C (140°F) (175F)- Synthetic Sea Water-4.7.2 Conforms Type II: No visible corrosion of Sulfurous Acid Spray carbon steel after 2 cycles. Synthetic Sea Water 4.7.3 Conforms No visible corrosion displacement - Removability Conforms Not more than 3 cycles to 4.7.4 remove. Abrasives 4.7.5 Conforms Non present Conforms Maximum film 4.7.6 Type II: 0.0005 inches Conforms - Sprayability 4.7.7 Sprayable Conforms Corrosivity 4.7.8 No visible pitting, etching or dark discoloration. No weight change (milligram/cm2) greater than 0.5 for magnesium, cadmium, and zinc nor greater than 0.2 for aluminum, copper, and brass. Conforms - Staining 4.7.9 No visible evidence of staining or other deleterious effects. - Minimum dielectric 4.7.10 Conforms 25,000 volts 38,000 volts breakdown - Mixability of Conforms No evidence of separation 4.7.11 compounds Conforms - Lubricity of 4.7.12 Less than 0.20 compounds - Effect on electric 4.7.13 Conforms No Significant change in components capacitance, dissipation factor and conductance of coil forms and capacitors. For coils no significant change in the Q and amount of capacitance to resonate the coil. No significant change in the resistance of resistors. A change greater than 1/2 the allowed tolerance of the component shall be considered as significant. - Effect on electric Conforms 4.7.14 No significant increase in conectors resistance between connected pins or decrease in resistance

between adjacent pins

ADDITIONAL ACF-50 TEST DATA

TEST IDENTITY	TEST METHOD	RESULTS
BMS 3-23E Table I -Flash Point -Sprayability -Low-Temperature Adhesion -Nonvolatile Content -Detectability -Removability -Storage Stability -Drying Time -Compatibility with Cadmium	ASTM D93 MIL-C-1617D MIL-C-1617D ASTM D1644	Pass Pass Pass Pass Pass Pass Pass Pass
Douglas Aircraft CSD #1 - Painted Surfaces - Residue Surfaces - Sandwich Corrosion Test - Stress Crazing Acrylic Plastics - Immersion Corrosion Test - Cadmium Removal Test	ASTM F 502 ASTM F 485 ASTM F 484 ASTM F 483 ASTM F 1111	Conforms Conforms Conforms Conforms Conforms
Douglas Aircraft DMS 2150 - Film Characteristic - Product Composition - Appearance - Toxicity - Flash Point - Nonvolatile Content - Viscosity - Salt Fog Exposure - Water Displacement - Removability - Storage Stability	ASTM D-56 ASTM D-1644A ASTM D-445 ASTM B-117	Conforms
Table II -Water Displacement Ability -Viscosity -Corrosion Inhibiting Characteristics -Functional Penetration Test	MIL-C-1617D FED-STD 791 (ASTM G 34)	Pass
Airbus Industrie TN A 007.10138 Corrosion Resistance To: Turco Toilet Fluid,Orange Juice, Coke, Coffee, De-Icing Fluid 3:4-1:2-1:4, %5 NaOH, %5 HCI, 5% HNO3, %10 CH3COOH, %45 Ethanol		
Volatile Organic Content -California Air Quality Compliant Misc.	ASTM 2369	>166.9g/L
-Humidity Resistance -Hydrogen Embrittlement	AMS 3066B ASTM F 519	Conforms Conforms
-Polyimide Insulated Wire	MIL-C-87937B	Conforms







KILLS CORROSION ON CONTACT

SUGGESTED APPLICATIONS:

Single Engine & Light Twins

Spray into: wing sections, fuselage, vertical & horizontal stabilizers, hinges, teleflex cables, air vent cables, trim cables, throttle cables, battery boxes, engine compartments, avionics, antenna mounts.

Rotorwing Aircraft

Spray into: tail boom section, engine compartments, strap pack, landing gear, air vent cables, rotor head, grip areas, avionics, antenna mounts, cannon plugs.

Spray or wipe on blades.

Cargo Airlines

Spray into: wing sections, fuselage, vertical & horizontal stabilizers, landing gear compartments, micro switches, avionics, cannon plugs, cargo door brackets, garbage chutes, galleys, lavatory areas, belly skin sections, main spar sections.

Float Equipped & Amphibious

Spray into: floats, fuselage, vertical & horizontal stabilizers, wing sections, bilge area, exterior of motors, connectors, cannon plugs, avionics, micro switches, antenna mounts.

Turbo Props / Business Jets

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

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



KILLS CORROSION ON CONTACT



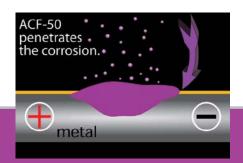
TECH SPECS

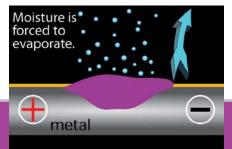
CORROSION

A SIMPLE EXPLANATION: Corrosion simply stated is a natural phenomenon which destroys most metals by either a chemical or electrochemical reaction. The metal is converted, usually with the help of an electrolyte, into a stable metallic compound such as an oxide, hydroxide, or sulfate. The rate at which metals corrode depends greatly on the environment they are exposed to, and the amount of preventive maintenance they receive. Metals that are exposed to marine atmospheres, moisture, tropical temperatures, and industrial chemical atmospheres have the highest rate of corrosion. The tendency of metals to corrode creates a serious problem in the area of aircraft operation.

ACF-50 ANTI-CORROSION FORMULA

HOW IT WORKS: ACF-50, Anti-Corrosion Formula, is a state of the art, anti-corrosion lubricant compound, specifically designed for the Aero Space Industry. It is an ultra Thin Fluid Film Compound (TFFC) that actively treats metal using advanced polar bonding technology. As seen from the diagrams, ACF-50's synthetic inhibitors and active chemistry penetrates through the oxide deposits (white powder) to the base of the corrosion cell where it emulsifies, encapsulates, and then lifts the electrolyte away from the metal surface. ACF-50 then 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 (orange juice, coke, coffee, salt water) in these corrosion prone areas. ACF-50's thin film acts like an "OFF SWITCH" for corrosion remaining effective for up to 24 months.







PREVENTS AND DEACTIVATES CORROSION ON METALS AND ELECTRONICS

SAFELY LUBRICATES AND PENETRATES MECHANISMS



Being "Pro Active" about corrosion control is the best way to protect your investment. Regular ACF-50 treatments reduce maintenance costs and improve overall flight safety. Lear Chemical's pioneered application methods and specially designed equipment, deliver ACF-50's penetrating fog to all critical aircraft structure. Technicians, at ACF-50 Corrosion Treatment Centers, offer complete airframe applications usually timed to your GA annual. Only ACF-50's advanced corrosion control properties, protect both the airframe and avionics systems. The US government, commercial airlines, fleet operators, and general aviation users have, through years of testing and use, proven ACF-50 delivers tough anti-corrosion protection. ACF-50 has endorsements or approvals from nineteen airframe OEM's and meets industry (AIRBUS, Boeing, Douglas, Mil-Spec) anti-corrosion performance requirements. The FAA also recognizes ACF-50 as a "suitable corrosion preventative compound."

PROTECTS AIRFRAME AND COMPONENTS













REDUCE MAINTENANCE COSTS

- 27 Year proven track record at preventing & deactivating corrosion
- Significantly reduces corrosion events in both structure & electrical systems
- Easy and inexpensive to apply (aerosol cans/'fogging' technique provides 3000 sq. ft/gal)
- Ultra Thin Film promotes weight reduction, improving payload capacity
- Non-toxic (no SCBA required) Low VOC and 50 State compliant, with pleasant odor
- Protects against all common electrolytes
- · Will not interfere with NDT procedures



Equipment Includes 7 Application Wands 3/16 4 feet & 8 feet wands Comprehensive Training DVD included with purchase of equipment.







Reduce Maintenance Costs. Improve on-time readiness!



BOMBARDIER

DASH 8 100-300 (Q400 pending)
Corrosion Preventative Compound
Electrical Systems - SYD-8-20-001
Structural AMM-51-31-00 REF 13-16
BAMS 565-006 TYPE III

- 26 Yr. Proven track record at preventing & deactivating corrosion
- Significantly reduces corrosion events in both Structure & Electrical Systems
- Easy and inexpensive to apply (aerosol cans/'fogging' technique provides 3000 sq. ft/gal)
- Ultra Thin Film promotes weight reduction, improving payload capacity
- Removal not required for re-application, creates no HAZ-MAT residue, saving time & money
- Non-toxic (no SCBA required) Low VOC and 50 State compliant, with a pleasant odor
- Protects against all common electrolytes (orange juice, coke, coffee, de-icing fluids, toilette fluids, acids, etc. per AIRBUS TNA 007.10138
- Will not interfere with NDT procedures



P/N	Packaging
10013	ACF-50 13oz. Aerosol
10032	ACF-50 32oz, w/Pump-Up Atomizer
10004	ACF-50 1 Gallon
10020	ACF-50 5 Gallons
10114	ACF-50 30 Gallons
10205	ACF-50 50 Gallons
50000	ACF-50 Hand Held Spray System

OEM Approved



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 1900C-D Corrosion Control Manual 114-590021-197 Chapter 20, chart 2, item 39

Kadex Aero Supply

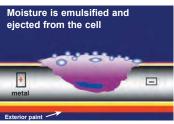
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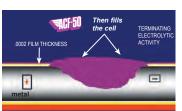




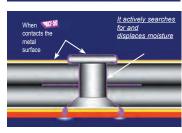


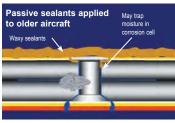








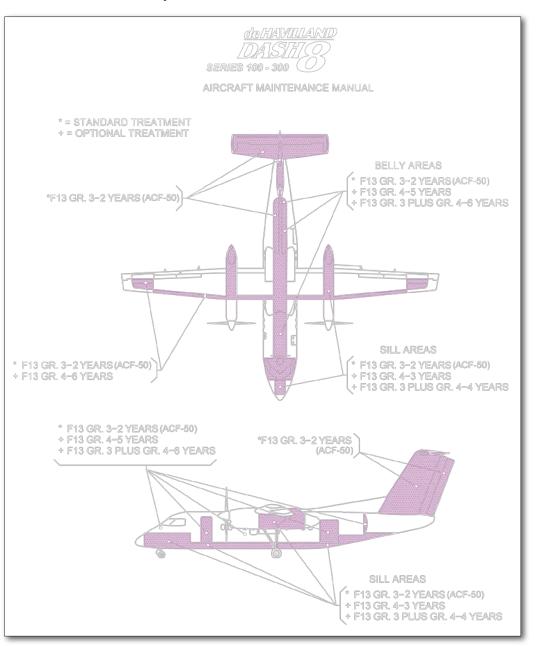




The rate at which metals corrode depends greatly on the environment they are exposed to, and the amount of preventative maintenance they receive.

ACF-50 actively penetrates and 'creeps' into the tightest seams, lap joints, micro cracks, and around rivet heads, displacing moisture and other corrosive fluids (orange juice, coke, coffee, salt water) in these corrosion prone areas.

ACF-50's thin film acts like an "OFF SWITCH" for corrosion remaining effective for up to 24 months. Regular ACF-50 treatments reduce maintenance costs and improve overall flight safety. ACF-50's advanced corrosion control properties protect both the airframe and avionic systems.





ACF-50 13oz Aerosol





Trilingual Packaging - English / Spanish / French

Aerosol packaging is suited for spot treatments and can be easily incorporated into phase maintenance inspections.

QTY PER BOX 12 x 13 oz

BOX DIMENSIONS 10 (L) x 7.5 (W) x 10 (H)

WEIGHT PER BOX 11.3 lbs

QTY PER PALLET 150 Cases

SHIPPING CLASSIFICATIONS:

GROUND - CONSUMER COMMODITY NON HAZARDOUS - NON FLAMMABLE - NON TOXIC

AIR - UN 1950-CLASS 2.2-NON FLAMMABLE GAS

HARMONIZED CODE # 3403.19.1000



ACF-50 32oz Bottle w/Spray Atomizer





Trilingual Packaging - English / Spanish / French

Great for small FBO Operators

· easy to handle, minimum inventory cost

Individuals who prefer to spray their own airplanes

• eg. a Cessna 172 will require approximately 2 quarts

QTY PER BOX 4 x 32 oz

BOX DIMENSIONS 8.75 (L) x 7.5 (W) x 9.25 (H)

WEIGHT PER BOX 8.8 lbs

QTY PER PALLET 150 Cases

SHIPPING CLASSIFICATIONS:

GROUND - NON REGULATED - NON HAZARDOUS NON FLAMMABLE - NON TOXIC

AIR - NON REGULATED - NON HAZARDOUS

HARMONIZED CODE # 3403.19.1000



ACF-50 4Ltr / 5 Gallon



Trilingual Packaging - English / Spanish / French

Packaging for: • small to medium FBO Operators

fleet accounts

aviation schools

Easy size to handle, Minimum inventory cost

QTY PER BOX 4 x 4 Ltr

BOX DIMENSIONS 11 (H) x 12 (W) x 20 (L)

WEIGHT PER BOX 34 lbs

QTY PER PALLET 28 Cases

SHIPPING CLASSIFICATIONS:

GROUND - NON REGULATED - NON HAZARDOUS NON FLAMMABLE - NON TOXIC

AIR - NON REGULATED - NON HAZARDOUS

HARMONIZED CODE # 3403.19.1000



ACF-50 20Ltr / 5 Gallon



Packaging for:

medium to large FBO Operators

• large fleet accounts

governement accounts

New Stackable continer for cost-effective shipping

QTY PER BOX 1 x 20 Ltr

BOX DIMENSIONS Standard Size

WEIGHT PER BOX 42 lbs

QTY PER PALLET 36 Pails

SHIPPING CLASSIFICATIONS:

GROUND - NON REGULATED - NON HAZARDOUS NON FLAMMABLE- NON TOXIC

AIR - NON REGULATED - NON HAZARDOUS

HARMONIZED CODE # 3403.19.1000





ACF-50 Drums

205 Litre or 50 Gallon 114 Litre or 30 Gallon



QTY 1 x 205 Ltr

1 x 114 Ltr

DIMENSIONS 205 ltr 23.5 (D) x 35.5 (H)

114 ltr 19.5 (D) x 29.5 (H)

WEIGHT PER DRUM 205 ltr 400 lbs

114 ltr 220 lbs

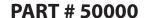
QTY PER PALLET 4 drums per pallet

SHIPPING CLASSIFICATIONS:

GROUND - NON REGULATED - NON HAZARDOUS NON FLAMMABLE - NON TOXIC

AIR - NON REGULATED - NON HAZARDOUS

HARMONIZED CODE # 3403.19.1000





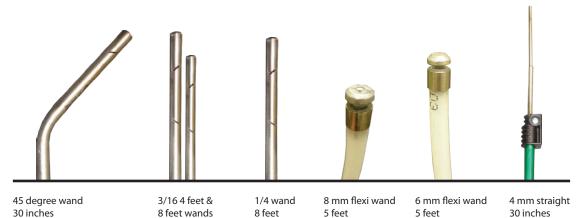
ACF-50 Hand Held Spray System

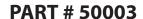






Equipment Includes 7 Application Wands







ACF-50 Standard Spray System

Includes Bullet Tip:





Equipment Includes 7 Application Wands

1/4 wand 8 mm flexi wand 6 mm flexi wand

45 degree wand 30 inches

3/16 4 feet & 8 feet wands

8 feet

5 feet

5 feet

4 mm straight 30 inches