



ENSURING AIRCRAFT PERFORMANCE AND LONGEVITY

CORROSION INHIBITORS, LUBRICANTS,
SURFACE PREPS, CLEANERS & SPECIALTY PRODUCTS



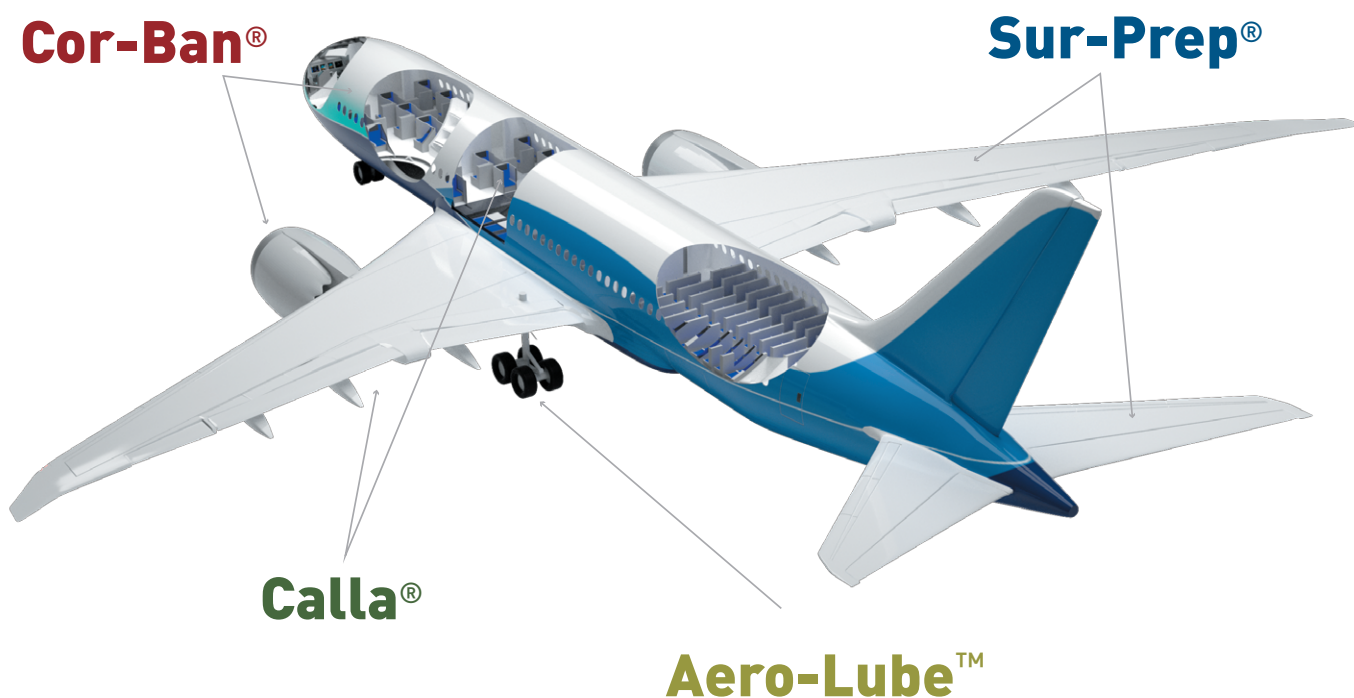


Corrosion inhibitors, Lubricants,
Surface preps, Cleaners
& Specialty products

« Zip-Chem's mission is to address the unique technological challenges of modern aviation with exacting chemical formulations supplied through innovative packaging and product delivery systems. »

Chuck Pottier, Zip-Chem's President

As a result, Zip-Chem's aviation products deliver superior performance while controlling costs, reducing waste and addressing environmental concerns.

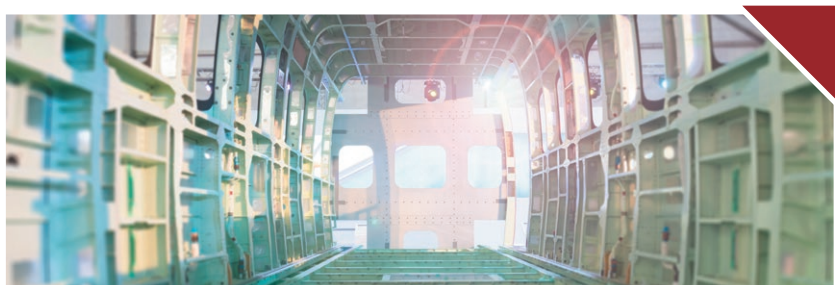


MILITARY AND COMMERCIAL SPECIFICATIONS



Please refer to our website for latest qualifications - www.zipchem.com

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Cor-Ban®

corrosion inhibiting compounds

- ▶ A line formulated for the demanding specifications of aviation maintenance
- ▶ For use on large structural components, small parts, avionics and cables
- ▶ Formulations for heavy-duty use and long-term storage

P.6 - 9



Sur-Prep®

surface preparation & avionics cleaners

- ▶ A line of avionics and general-purpose surface preparation cleaners
- ▶ Offer specific performance advantages in cleaning efficiency, flammability, VOC's and other related environmental concerns

P.10 - 11



Aero-Lube™

lubricants & lubricating compounds

- ▶ A line of aircraft lubricants
- ▶ Includes multi purpose greases, silicones, molybdenum disulfide, and graphite lubricants
- ▶ Available for high temperature areas, applications requiring penetrating lubricants and prevention of ice build-up on rubber seals

P.12 - 15



Calla®

aircraft cleaners & disinfectants

- ▶ A line of aircraft cleaners and disinfectants for interior and exterior cleaning
- ▶ Includes large surface cleaners for the exterior of the aircraft, parts cleaners, glass cleaners, degreasers, dry wash, polishing products, disinfectants, odor neutralizers and **US EPA Safer Choice** approved cleaners

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Aircraft Specialty Products

- ▶ A line of chemical and non-chemical products that are for specific aircraft applications
- ▶ Heat transfer fluids and high temps products



Cor-Ban® corrosion inhibiting compounds

Structural Corrosion Inhibitors

Cor-Ban® 35



Green Solution

NSN: 6850-01-492-2932, 8030-01-531-7358 (Aerosol),
8030-01-615-4740 (Gallons), 8030-01-659-2958 (1 Gallon),
8030-01-531-7360 (5 Gallons), 8030-01-615-4737 (Quart),
8030-01-615-4733 (8 oz Brush In Cap)

A long lasting, high solids CIC

FOR AIRCRAFT SUBSTRATES

- high penetration capability
- water displacing
- dries in less than one hour

SPECS:

Airbus CML: AIMS 09-08-003 /
AIMS 09-08-002 Ty II Gr 2

Boeing QPL : BMS 3-23F, BMS 3-35

Boeing: DMS 2150

Embraer: 51-61-00 Ty I & Ty II and MEP 10-063

ATR 42 / ATR 72 SRM

Bombardier: BAMS 565-06 Type I and Type II

BAE: AVP 2-022

Cessna CSNP038: Ty IVA/Class 2

Mil-DTL-85054D

Dassault: DGGT 1.7.0.0103

Gulfstream: GAC115AD

Sukorsky : SS 8536 Type II

Applications: stringers, profiles, ribs, cavities, seat rails, longerons, wide and narrow box sections, broad surface cargo holds, lavatories and galley subsections

Sukhoi: RRJ000-RE-811-2559

de Havilland: DHMS C 4.12

Viking: VMS C4.12

FedEx: A30-51-001

Cor-Ban® 23



NSN: 8030-01-531-7361, 8030-01-531-7362

A high penetrating and water displacing CIC

FOR AIRCRAFT SUBSTRATES

- thin film build
- high solids formulation
- tack free in one hour

Applications: stringers, profiles, ribs, cavities, seat rails, longerons, wide and narrow box sections, broad surface cargo holds, lavatories and galley subsections

SPECS:

BMS 3-23K Ty II Class 2 Grade A & B

BMS 3-35

BAMS 565-006 Ty V (QPL)

DHMS C4.12 Type II Grade 3 & 4 (QPL)

MEP 10-063 (QPL)

Airbus: CML 15-006 (Cor-Ban 23 may be used in place of)

Fed-Ex: E.O. 9-5100-7-5001

AIMS 09-08-001 Type I Grade 3

Cor-Ban® 27L



NSN: 6850-01-469-7645 (Quart), 8030-01-531-7355 (Semco Cartridge), 8030-01-531-7357 (5 oz Tube)

A non-drying CIC, effective in a wide range of temperatures

FOR STATIC JOINTS, SUBSTRATES

- develops a thixotropic buff colored film
- UV-resistant in highly corrosive environments
- free of chromates

Applications: any metal surface, antenna, seat tracks, lavatory and the galley

SPECS:

Airbus CML 05-133

BMS 3-38B

CSNP038 Ty X

DPM 6498

Embraer: E9447580

GMS 4109 Rev C

HMS 20-1267/2372

LGQP 5010E TY V

MEP-QPL-09-075

SS 8689 REV 6 (-002)

T.O. 4S1-108-1

T.O. 4S1-182

T.O. 4W-1-61

Cor-Ban® 22



NSN: 8030-01-531-7352 (5 Gallons), 8030-01-523-4290 (Aerosol)

A long lasting, water displacing, corrosion inhibiting compound

FOR DISSIMILAR METALS

- displaces moisture
- neutralizes existing corrosion
- prevents further and fretting corrosion

Applications: internal steel bores, landing gear boggies, horizontal pivot shafts, and metal parts

SPECS:

BMS 3-23 (Meets Requirements)

T.O. 1C-5A-23 and TO: 1C-130A-23 (Called Out)

D-5035NS/ZC-035



NSN: 8030-01-686-7249 (Aerosol)

A heat resistant corrosion preventive

FOR HIGH TEMPERATURE AREAS

- withstands continuous temperatures up to 350°F (177°C)
- short-term exposure up to 430°F (221°C)
- excellent moisture displacing qualities
- high metal dampening and acid neutralization properties

Applications: cables, pulleys and any metal surface

SPECS:

Boeing QPL: DPM 5217



Avionic Corrosion Inhibitors

D-5015NS/ZC-015



A light lubricant

FOR AVIONICS, ELECTRONICS

- ▶ forms a soft, ultra thin protective film
- ▶ prevents corrosion
- ▶ displaces moisture

Applications: For use on highly critical metal surfaces, avionic components, and electrical and electronic components

SPECS:

Lockheed EMAP G39.032 (Aerosol)

MIL-PRF-81309H Type III Class 2 Grade B: CO₂ (Aerosol)

MIL-PRF-81309H Type III Class 1 (Bulk)

Sikorsky SS8536

D-5026NS/ZC-026



NSN: 8030-01-603-2129 (Aerosol) and NSN: 8030-01-603-2131 Type II (Aerosol) (QPL)

A light lubricant

FOR AVIONICS, CABLES

- ▶ a heavy duty version of D-5015NS/ZC-015
- ▶ prevents corrosion
- ▶ water dispersant for large surfaces
- ▶ lubricating characteristics

Applications: Use on critical metal surfaces and avionic components

SPECS:

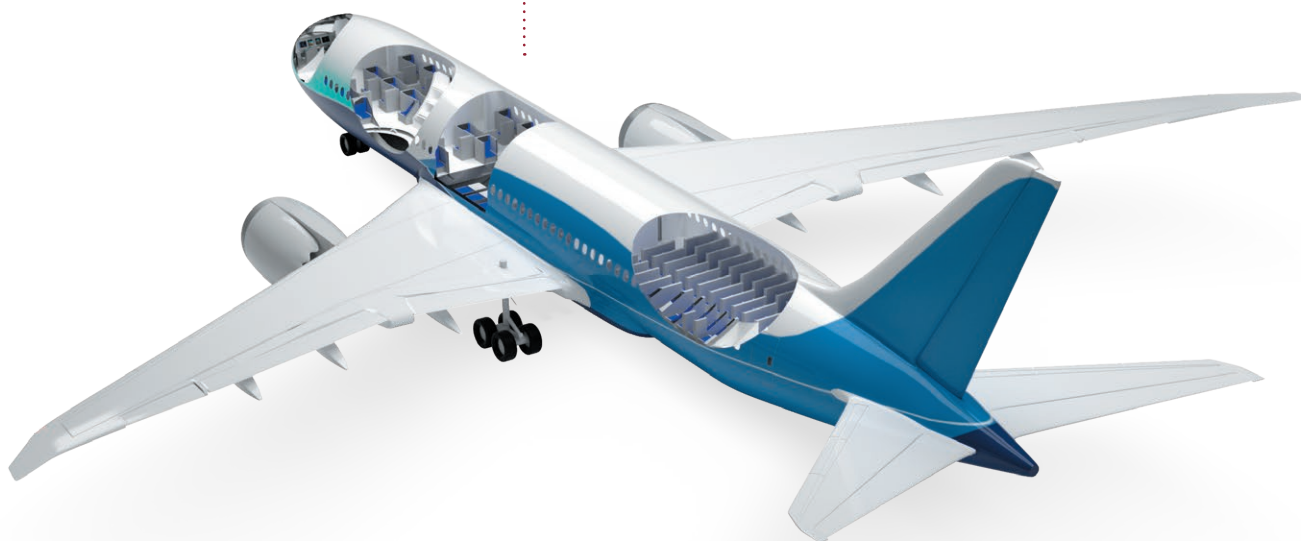
Boeing Alert Service Bulletin 737-24A1148 (Called out as CIC for connectors) (Aerosol & Bulk)

AD 2002-16-03 (Called Out) (Aerosol & Bulk)

DPM 5701-1 (QPL) (Aerosol & Bulk)

Embraer E 6125-209 (QPL) (Aerosol & Bulk)

QPL MIL-PRF-81309H Type II & III Class 1 (Bulk) & Class 2, Grade CO₂ (Aerosol)



Corrosion Inhibitors for parts storage

D-5010NS/ZC-010



A corrosion preventive

FOR AIRCRAFT PARTS

- ▶ prevents and penetrates rust
- ▶ displaces moisture
- ▶ deposits an oily film on the surfaces to be protected
- ▶ neutralizes and retards effects from alkalis and mild acids

Applications: Aircraft and engine parts, shop tools, gauges, and instruments

SPECS:

MIL-C-23411 (Meets requirements) (Aerosol & Bulk)

A-A-50493 (Meets requirements) (Aerosol & Bulk)

Solar Turbine ES9-249 (turbomachinery preservation) (Aerosol & Bulk)

D-5082NS/ZC-082



A self healing corrosion control lubricant

FOR CABLES

- ▶ self-healing
- ▶ features a flexible petroleum base solvents
- ▶ easily removed with common solvents
- ▶ prevents corrosion up to 2 years

Applications: For aircraft cables and preparing aircraft for storage and Heavy Maintenance Visits (HNV)

SPECS:

OIL 4501-11SC (Aerosol & Bulk)

D-5067NS/ZC-067



A self-healing corrosion shield

FOR CORROSION PROTECTION

- ▶ protects parts subject to handling and storage
- ▶ surpasses humidity chamber test
- ▶ protects substrates from chemical fumes

Applications: cables, tools, sheets, rods & bar stock

SPECS:

MD-10-10 (Aerosol & Bulk)

QPL 20-60-04-2 (Aerosol & Bulk)

Other Cor-Ban® Products

D-5030 NS



A corrosion preventive coating

FOR ALL METALLIC SURFACES

- ▶ provides a long term barrier

against corrosion on steel, aluminum, copper, zinc, galvanized steel, and all metallic surfaces.

- ▶ excellent moisture displacing
- ▶ very good adhesion features

Applications: aircraft, cables, parts, and tools



For more information contact us: zipchem@addevmaterials.com

Sur-Prep® surface preparation & avionics cleaners

Surface Preparation

Sur-Prep® AP1 KIT

NSN: 8010-01-600-2254, 8010-01-646-1109, 8010-01-600-1533

A paint adhesion promoter

FOR EXTERIOR AIRCRAFT SURFACES

- ▶ improves adhesion
- ▶ re-activates paint surfaces
- ▶ no need to "scuff" the paint surface

Applications: for paint surfaces reactivation, adhesion increase between basecoat and clearcoat coatings, on radome polyurethane boots prior to topcoat application

SPECS:

Boeing: D6-1816 Process Document for Decorative Finishing of Airplane Exteriors (QPL)

Boeing: BMS 10-127 "Chemical Reactivator for Paint Applications" (Called Out)

BAC 5308 Application of Stencils and Insignia Markings.

Sur-Prep® AR-58

A solvent blend adhesive remover

FOR VARIOUS SUBSTRATES

- ▶ dries completely
- ▶ can be used on paper and porous surfaces
- ▶ penetrates various adhesives
- ▶ does not leave a residue

Applications: removing adhesives from surfaces, such as metal and paper

Sur-Prep® 5606

An hydraulic fluid-based cleaner

FOR LANDING GEAR

- ▶ aerosolized Mil-PRF-5606 hydraulic fluid
- ▶ can be sprayed on to an approved wiper material
- ▶ compatible with the various elastomers and substrates of the landing gear assembly

Applications: to remove the landing gear contaminants during maintenance, assembly, and overhaul

SPECS:

Pre-saturated AMS 3819 approved towelleths

Mil-PRF-5606 QPL (Hydraulic Fluid In Sur-Prep® 5606 Aerosol)

Sur-Prep® 3500-1 KIT

A non-decorative interior structure surface prep kit

FOR INTERIOR STRUCTURES

Kit contains:

- ▶ 1) alkaline cleaning solution pad
- ▶ 2) deionized water wipe and dry towel
- ▶ 3) Citra-Safe® deodorized wipe and dry towel
- ▶ 4) conversion coating material wipe
- ▶ 5) deionized water wipe and dry towel

Applications: prepare the interior structure, fuel tank structure, and wing structure surfaces for painting and sealing

Sur-Prep® 5604

A dust removal

FOR PRECISION INSTRUMENT

- ▶ truly clean contacts and assembly

Applications: lenses, optical equipment, photo negatives and film, magnetic tape and tape heads, precision instruments, and devices

SPECS:

Boeing DPM 5148 (Found on)

Sur-Prep® 3500-2 KIT

An exterior fuselage structure surface prep kit

FOR EXTERIOR FUSELAGE AREAS

Kit contains:

- ▶ 1) alkaline cleaning solution pad
- ▶ 2) deionized water wipe and dry towel
- ▶ 3) Citra-Safe® deodorized wipe and dry towel
- ▶ 4) conversion coating material
- ▶ 5) deionized water wipe and dry towel

Applications: Prepare bare exterior aluminum structure for corrosion protection or for painting and sealing





Sur-Prep® surface preparation & avionics cleaners

Cleaner & Degreasers

Sur-Prep® 3167



A CIC remover, degreaser, and cleaner
FOR AVIATION SOILS AND SURFACES

- ▶ removes aged or multi-layered CIC's
- ▶ removes soil and greases
- ▶ cleans critical surfaces prior to paint and bonding
- ▶ broad solvency range

Applications: removal of CIC's, for preparing critical surface areas prior to painting and bonding

SPECS:

Airbus AIMS 09-03-000 Boeing: D6-17487

Sur-Prep® SB642



A ready-to-use, all-in-one cleaner, degreaser, and polish
protectant

FOR PAINTED AND UNPAINTED AIRCRAFT

SUBSTRATES

- ▶ can be applied in all types of weather
- ▶ non-abrasive
- ▶ silicone free

Applications: for use on all types of finishes

SPECS:

Airbus: AIMS 09-00-002 Boeing: D6-17487
AMS 1550B, AMS 1526C, AMS 1650C and CSD No. 1

Sur-Prep® 5677



NSN: 6850-01-684-6911

A fast evaporating solvent blend degreaser and
contact cleaner

FOR AIRCRAFT SUBSTRATES

- ▶ works on oil and oil-bonded contaminants
- ▶ helps coatings and sealants adhere to aircraft substrates
- ▶ fast drying
- ▶ broad solvency range
- ▶ safe on plastics

Applications: to prepare critical surface areas prior to painting or bonding as well as electrical contacts

SPECS:

Airbus AIMS 09-00-002, AMS 3167
Boeing: D6-17487 and CSD No. 1

Sur-Prep® 3160



NSN: 6850-01-633-9843

A petroleum solvent cleaning compound

FOR AIRCRAFT SUBSTRATES

- ▶ works on oil and oil-bonded contaminants
- ▶ helps coatings and sealants adhere to substrates
- ▶ fast drying
- ▶ broad solvency range

Applications: to prepare critical surface areas prior to painting or bonding

SPECS:

A-A-2904 Bombardier CPM PSM 1-84-18-08-10
AMS 3160 Mil-PRF-680 Ty II

D-5640NS/ZC-640



NSN: 8030-01-597-6958

A general-purpose precision cleaner

FOR PRECISION METAL CLEANING

- ▶ free of CFCs
- ▶ biodegradable

Applications: removal of CICs, cleaning before painting, equipment degreasing and parts washing, also used in pressure cleaning and handwipe applications

SPECS:

Boeing: D6-17487 Rev. I (Aerosol & Bulk), CSD-1 (Aerosol & Bulk)
Fed-Ex E.O. 9-5100-7-5001

D-5600 NS/ZC-600



A surface prep and mechanical parts cleaner

FOR MECHANICAL PARTS & ELECTRICAL COMPONENTS

- ▶ safe for use on metals, painted surfaces, ceramics, fiberglass, and many plastics
- ▶ biodegradable solvent containing Citra Safe®

Applications: to clean metals, painted surfaces, ceramics, fiberglass, many plastics, and electrical components

SPECS:

Boeing: BAC 5504, BAC 5000, and BAC 5750.



Contact cleaners

Sur-Prep® 5673



NSN: 7510-00-616-9588

A contact cleaner and defluxer

FOR AVIONICS

- ▶ non-ozone depleting
- ▶ cleans resin solder flux residues
- ▶ non-flammable
- ▶ ideal for use as a defluxer

Applications: avionics, energized circuits, electrical components

SPECS:

Boeing: D6-17487 for solvent cleaners (Meets requirements)

D-5665 NS/ZC-665



A safe and effective cleaning agent

FOR AVIONICS

- ▶ non-ozone depleting
- ▶ non-flammable (ingredients)
- ▶ plastic friendly

Applications: for energized circuits and electrical components where flushing and displacement drying are essential

SPECS:

BAC 5750 (Aerosol & Bulk)
BAC 5402 (Aerosol & Bulk)

Mil-Std-1330D
(Aerosol & Bulk)

Sur-Prep® 123



NSN: 6850-01-671-8497, 6830-01-678-3176

A precision contact cleaner

FOR OXYGEN SYSTEM

- ▶ is the preferred solvent for cleaning LOX systems
- ▶ non-flammable
- ▶ safe on metal, varnished surfaces and most plastics and elastomers
- ▶ evaporates quickly without residue

Applications: precision cleaning, drying of high sensitivity parts, and cleaning of oxygen systems

SPECS:

NASA/TP-2015-218207 (Preferred solvent for cleaning LOX systems)

T.O. 15X-1-1 (Called Out)



Sur-Prep® 5602



An electro-freeze

FOR AVIONICS CIRCUIT

- ▶ will reduce surface temperatures to -50°F (-45°C)
- ▶ removes adhesives and sticky substances, such as gum from substrates

Applications: locate defective components

SPECS:

Air Standard 700-83
DPM 6372

UAL GAS 3001-SC (Called Out)
A-A-58060

D-5695 NS



An alcohol contact cleaner

FOR ELECTRICAL CONNECTORS

- ▶ precise application
- ▶ uncontaminated and ultra-filtered stream of methanol

Applications: cleans connectors, PC boards and miscellaneous parts



For more information contact us: zipchem@addevmaterials.com

Aero-Lube™ lubricants & lubricating compounds

Lubricants

D-5100 NS

NSN: 9150-00-269-8249

A pure silicone lubricant

FOR METALS AND PLASTICS

- ▶ prevents door locks and rubber weather stripping from freezing
- ▶ operates in a temperature range of -60 to 600°F (-51 to 315°C)

Applications: Lubricates dissimilar metals, plastics and plastic/metal combinations

SPECS:

VV-D-1078 (Silicone for D-5100NS)

D-5440 NS/ZC-440

NSN: 9150-00-989-2021 (Aerosol)

A dry film lubricant

FOR LUBRICATION OF TRACKS

- ▶ withstand temperatures from the cryogenic range to over 240°F (116°C)
- ▶ excellent anti-stick properties
- ▶ does not stain or rust
- ▶ is chemically inert

Applications: slat and flat track lubrication and corrosion protection

SPECS:

DPM-3494- Release Agent (Aerosol)

SCE 898-13117 (Aerosol)

UAL LUB 4500-1750 (Aerosol)

T.O. 1C-130H-2-12JG-20-1 (Aerosol)

T.O. 1C-130J-2-12JG-20-1 (Aerosol)

DMS 1762 Type 7E

D-5261 NS/ZC-5261

A highly penetrating cleaning lubricant and solvent

FOR CABLES, FLIGHT CONTROLS,

HINGES AND JOINTS

- ▶ penetrates tight parts (heart strands of cables)

Applications: flight control, engine and landing gear cables; pressure seals; hinges, static joints and pulleys

SPECS:

MIL-PRF-7870D (Aerosol & Bulk)

UAL OIL 4501-10SC (Found On) (Bulk)

D-5480 NS/ZC-480

A graphite dry film lubricant

FOR HIGH TEMPERATURE LUBRICATION

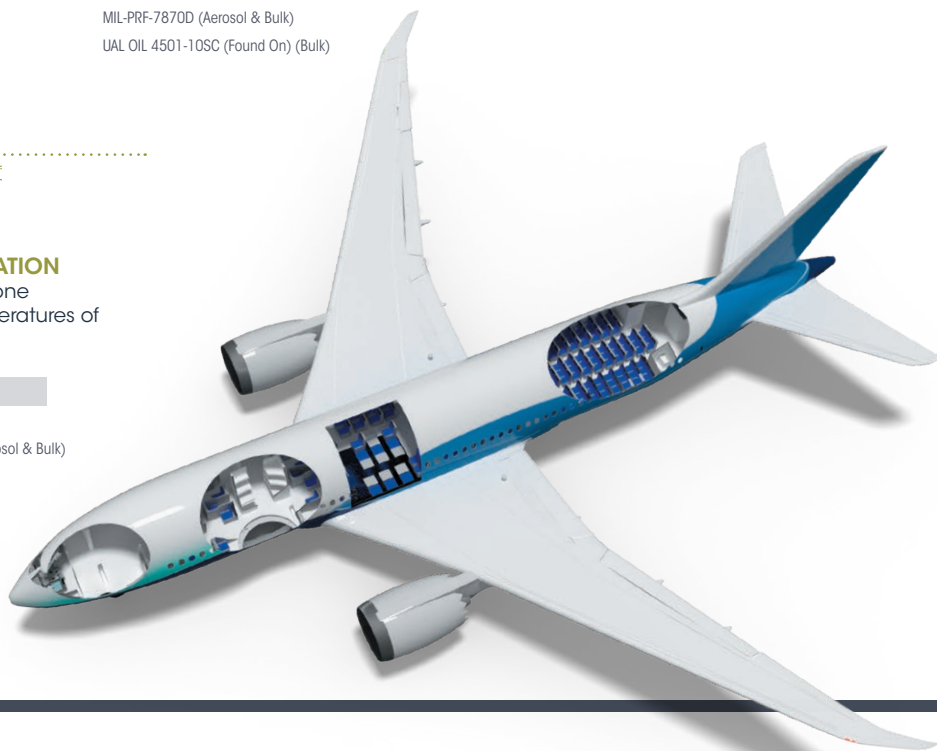
- ▶ contains no grease, wax or silicone
- ▶ dry film lubricant stable at temperatures of 400°F (204°C) to 850°F (454°C)
- ▶ fine particulate size graphite

Applications: small, precision parts

SPECS:

LUB 4500-35C (Aerosol & Bulk)

ASTM F 945 (Aerosol & Bulk)



Lubes

D-5263 NS/ZC-5263

NSN: 9150-01-660-6782 (Aerosol)

An aircraft cable lubricant and rust preventive

FOR CABLES

- ▶ excellent water displacing qualities
- ▶ good rust preventive properties

Applications: precision machined parts, pylon bearings before lubrication and cargo door lubrication

SPECS:

Boeing DPM 5481-1 (Called Out)

ASTM F 945 (Aerosol & Bulk)

LUB 4500-35C (Aerosol & Bulk)

Mil-PRF-32033

NATO Code: O-190 (Aerosol & Bulk)

UAL OIL 4501-125C (Called Out)

D-5460 NS/ZC-460

NSN: 9150-01-057-2576 (Aerosol)

A moly dry lube

FOR ENGINES AND HIGH TEMP AREAS

- ▶ excellent high temperature stability to 660°F (350°C)
- ▶ good surface adhesion
- ▶ contains a fast air drying formula

Applications: engines, fan rotor assemblies and fan reverser pre-cool duct seals

SPECS:

GE/DFO: A50 TF192 Class C-6, 192-58 (Aerosol & Bulk)

UAL#: LUB 4500-12SC (Aerosol & Bulk)



Greases

D-5933 NS



An aerosolized grease

FOR MULTI-PURPOSE

- ▶ precise product application
- ▶ non-flammable
- ▶ highly resistant to rubbing and wiping

Applications: general airframe lubricant

SPECS:

Boeing QPL: BMS 3-33C Type 2

MIL-PRF-23827C Ty 1 (Aeroshell® 33 grease)

D-5920 NS/ZC-920



NSN: 9150-01-163-0942

An ice build-up preventive

FOR ICE RELEASE, RUBBER, INSULATION, SEALS

- ▶ prevents ice build-up that causes rubber seals to stick to metal below it

Applications: doors and rubber seals

SPECS:

United Airlines AGE-3020-SC (Aerosol)



For more information contact us: zipchem@addevmaterials.com

Calla® aircraft cleaners & disinfectants

Exterior Cleaning Compounds

Calla® 301A



Green
Solution

An environmentally friendly degreaser and cleaner

FOR LARGE SURFACE AREAS

- ▶ approved by the US EPA Safer Choice program
- ▶ biodegradable
- ▶ will not harm various types of metals
- ▶ leaves no residue or stain

Applications: for heavy duty equipment and aircraft cleaning

SPECS:

AMS 1526C, AMS 1550B

Boeing D6-17487 and CSD-1



CallaSolve™ 120



A water dilutable cleaner

FOR HEAVY DUTY EQUIPMENT

- ▶ terpene-based emulsion cleaner

SPECS:

MIL-PRF-87937 Type 1
DPM 5278-1

T.O. 1-1-691
T.O. 1C-135(k)A-3-4

Applications: for heavy duty equipment cleaning of aircraft, ground equipment and AGE engines

Calla® 800 (Military)



A heavy duty cleaning and degreasing compound

FOR EXTERIOR

- ▶ meets military specifications
- ▶ effective in a wide range of applications

Applications: for exterior fuselage, exterior blast areas, landing gear & wheel wells

SPECS:

MIL-PRF-87937D Type II (Meets and is on QPL under QPL-87937-10)

Calla® 804



NSN: 6850-01-583-3031

A cleaning and degreasing compound

FOR EXTERIOR AIRCRAFT EQUIPMENTS

- ▶ meets military specification
- ▶ effective cleaning capability
- ▶ low toxicity in a neutral pH
- ▶ biodegradable formulation
- ▶ no flash point

Applications: for aerospace equipment, such as aircraft, ground equipment, and AGE engines

SPECS:

MIL-PRF-87937D Type IV (QPL)

AN-2001P



A dry wash and polish

FOR EXTERIOR PAINTED SURFACES

- ▶ cleans and protects painted surfaces

Applications: all painted surfaces and metals of aircraft

SPECS:

AMS 1650B Ty 1 & 2 (Meets requirements)

Boeing CSD-1, D6-17487 (Meets requirements)





Zip-Strip™ 125 M



A water rinseable CIC remover

FOR EXTERIOR AIRCRAFT SURFACES

- removal of wet, waxy and/or dry film Corrosion Inhibiting Compounds (CIC's)
- contains water rinsable material
- very effective even after short dwell time

Applications: effective for mixed fleet carriers and on aviation soils, such as MoS₂ grease, hydraulic fluid, wax, and carbon deposits

SPECS:

AMS 09-00-002

Boeing: D6-17487

Calla® 8050



A non-solvent ready-to-use cleaner

FOR WHEEL AND FLAP WELLS

- thicker version of Calla 805
- environmentally safe
- non-solvent alkaline cleaner
- for use on all aircraft substrates and coatings

Applications: for wheel and flap wells

SPECS:

AMS 1533

Boeing: CSD-1

Jet Brite™ 550



A dry wash and polish paste

FOR EXTERIOR ALUMINUM & PAINTED SURFACES

- removes oxidation contains no abrasives or corrosives

Applications: all painted surfaces and bare metals of aircrafts

SPECS:

AMS 1650B Type 2 Paste

Boeing: CSD-1, D6-17487 Rev. L

Calla® 500 Domestic



A highly concentrated and versatile alkaline water base cleaner

FOR EXTERIOR AIRCRAFT SURFACES

- safe on aluminum alloys, magnesium alloys and cadmium plated steel
- no attack on plastics

Applications: removal of exhaust stains and general aircraft cleaning

SPECS:

AMS 1526B

Mil-C-25769G

Boeing: D6-17487 and CSD-1

Calla® 805



An aircraft exterior cleaner

FOR EXTERIOR AIRCRAFT SURFACES

- provides excellent general aircraft cleaning
- environmentally safe
- non-solvent alkaline cleaner
- for use on all aircraft substrates and coatings
- an unthickened version of Calla® 8050

Applications: to clean the soils and contaminants found on the exterior of aircrafts

SPECS:

AMS 1533

Boeing: CSD-1



For more information contact us: zipchem@addevmaterials.com



Interior Cleaners

X-405



Green Solution

NSN: 6850-01-624-1757, 6850-01-627-5474 (Wet/Dry Kit), 7930-01-595-1214

A water based cleaner

FOR GLASSES & TRANSPARENCIES

- ▶ water-based & biodegradable
- ▶ non-toxic
- ▶ non-flammable

Applications: for use on aircraft windows, plastic transparencies, and «EFIS» Electronic Flight Instrument Systems

SPECS:

AMS 1534 Ty I
TO: 1C-130A-23

Boeing: D6-17487 and CSD-1



X-410 Q



Green Solution

An environmentally friendly cleaner

FOR AIRCRAFT INTERIORS

- ▶ water-based & biodegradable
- ▶ safe on all structural metal
- ▶ safe on all quality paints, primers and acrylic plastics

Applications: cabin interior surfaces, such as tray tables and overhead compartments

SPECS:

AMS 1550B

Boeing: D6-17487 and CSD-1



Calla® 301A Lemon



A cleaning and degreasing compound

FOR LARGE INTERIOR SURFACE

AREAS

- ▶ non-flammable
- ▶ safe on various metals
- ▶ leaves no residue or stain

Applications: for aircraft, aircraft components, and facilities

SPECS:

AMS 1526C, AMS 1550B
Boeing: CSD-1

Speciality Cleaners

X-200



A gum remover

FOR SOFT SURFACES

- ▶ removes gum
- ▶ safe citrus oil based cleaner

Applications: remove chewing gum from soft surfaces, such as carpets

SPECS:

Flame Retardant AMS 1630A

Boeing: D6-17487 and CSD-1

AN-300 D



A deodorant

FOR TOILETS

- ▶ does not contain formaldehyde
- ▶ prevents odor causing bacteria from forming in the toilet bowl
- ▶ dark blue liquid with a cherry odor

Applications: use on toilet tanks and other lavatory equipment

SPECS:

AMS 1476A

Calla® aircraft cleaners & disinfectants

Disinfectants

our solutions to fight Covid-19

AeroDis® 7127



Green Solution

NSN: 6840-01-686-9908 (wipes), 6840-01-686-9917

A ready-to-use disinfectant

FOR HARD SURFACES ON AIRCRAFT

- ▶ classified as a Toxicity Category IV (EPA's lowest concern level for acute toxicity)
- ▶ does not stain aircraft interiors

Applications: lavatories, panels galleys, arm rests, tray tables, overhead bins, and transparencies

SPECS:

AMS 1452, AMS 1550

Boeing D6-7127

Calla® 1452 & Calla® 1452 Ready-To-Use



NSN: 6840-01-561-3126 (Starter Kit), 6840-01-600-4177 (5 Gallon Pail), 6840-01-687-1371 (cartridge)

A general-purpose cleaner, disinfectant and deodorizer (available RTU)

FOR HARD & NON-POROUS SURFACES

- ▶ excellent cleaning, deodorizing, and disinfection properties
- ▶ has the emerging viral pathogens and human coronavirus claims for use against SARS-CoV-2
- ▶ does not stain aircraft interiors and plastics

Applications: glazed ceramic tile, plastic surfaces, floors, walls, metal surfaces, stainless steel surfaces, and glazed porcelain

SPECS:

AMS 1452, 1453, 1530B and 1550B

Boeing D6-7127 and D6-17487

NAVAIR: 01-1A-509-2

T.O.: 1-1-691, 1C-130A-23, and 1C-5A-23-1

TM 1-1500-344-23-2



Part Washer Cleaners Products

Calla® 602 LF



NSN 6850-01-513-5230 (1 gallon), 6850-01-513-5237 (5 gallons), 850-01-513-5233 (55 gallons)

A heavy duty cleaning & degreasing compound

FOR AQUEOUS PARTS CABINETS

- ▶ low VOC formulation (Useful under the strictest air quality control regulations)
- ▶ effective at 5% dilution
- ▶ low foaming at temperatures as low as 140°F (60°C)

Applications: for heavy duty cleaning and degreasing for aqueous parts cabinets

SPECS:

Source Control Drawing 9825019-17, -19, & -21 Rev. C for T.O's 4W-1-161, 4B-1-32, 4S-1-182

Mil-C-29602 except Section 3.7 (pH)

Calla® 602 LF Defoamer



NSN: 6850-01-621-2027

A concentrate of the defoamers used in Calla® 602LF

FOR AQUEOUS PARTS WASHERS

- ▶ helps to control the foam produced in parts washers
- ▶ to be used in conjunction with Calla® 602LF

Applications: Add directly to the parts washer soap bath one quart at a time until foam is reduced sufficiently



For more information contact us: zipchem@addevmaterials.com

Aircraft Specialty Products

Heat Transfer Products

Accu-Cool® HTF 350



A heat transfer fluid

FOR USE ON AIRBUS A350 AIRCRAFT

- ▶ no flash point
- ▶ fluoresces a blue color when radiated with UV light
- ▶ nontoxic and not harmful

Applications: for the Supplemental Cooling System (SCS)

SPECS:

AIMS 09-11-002 (Meets requirements)

Accu-Cool® 342



A heat transfer fluid

FOR USE ON BOEING 787 AIRCRAFT

- ▶ no flash point
- ▶ possibility of incidental food contact

Applications: for the Integrated Cooling System (ICS), Power Electronic Cooling System (PECS), and the optional Forward Cargo Air Conditioning System (FCAC)

SPECS:

Boeing: BMS 3-42 (QPL)

AP 280 KIT

A silicone heat sink compound

FOR HEATER ELEMENTS

- ▶ a kit of uncatalyzed silicone resin with a select grade of aluminum powder
- ▶ maintains an excellent bond while exhibiting vibration resistance and flexibility from -100°F to 550°F (-73°C to 288°C) in continuous service

Applications: for use when changing the static port heater element on the DC-9 and MD80 powerplants

SPECS:

DPM 5979 (QPL)





Bend it, shape it Formit® solution

Formit® 18 aerosol extension wand kits have been developed to apply chemicals from Zip-Chem aerosols to areas that are difficult to reach.

- ▶ FORMIT® 18-FAN
NSN: 4730-01-612-9914
NSN: 4730-01-661-8773
- ▶ FORMIT® 18-180
▶ FORMIT® 18-360
NSN: 6850-01-492-2942
- ▶ FORMIT® 18-90-FOG
NSN: 6850-01-517-0963
- ▶ FORMIT® 48-FAN
NSN: 4730-01-632-0157
- ▶ FORMIT® 48-360
NSN: 4730-01-659-5461
- ▶ FORMIT® 18-STD-FOG
NSN: 4730-01-632-0156

- ▶ Specifically designed to fit all Zip-Chem® aerosols
- ▶ A Formit® kit consists of a pre-assembled female actuator with 18" (46 cm) long flexible plastic tubing and a 12" (30 cm) long aluminum sleeve
- ▶ Tube and aluminum sleeve can be formed into a variety of angles
- ▶ Four nozzle variations include the 18-Fan for a full fan, forward projection spray; the 18-180 for a fan spray of 180 degrees, the 18-360 for a full circle, 360 degree fan spray, and the 18-90-FOG for fogging application



Please refer to our website for latest qualifications

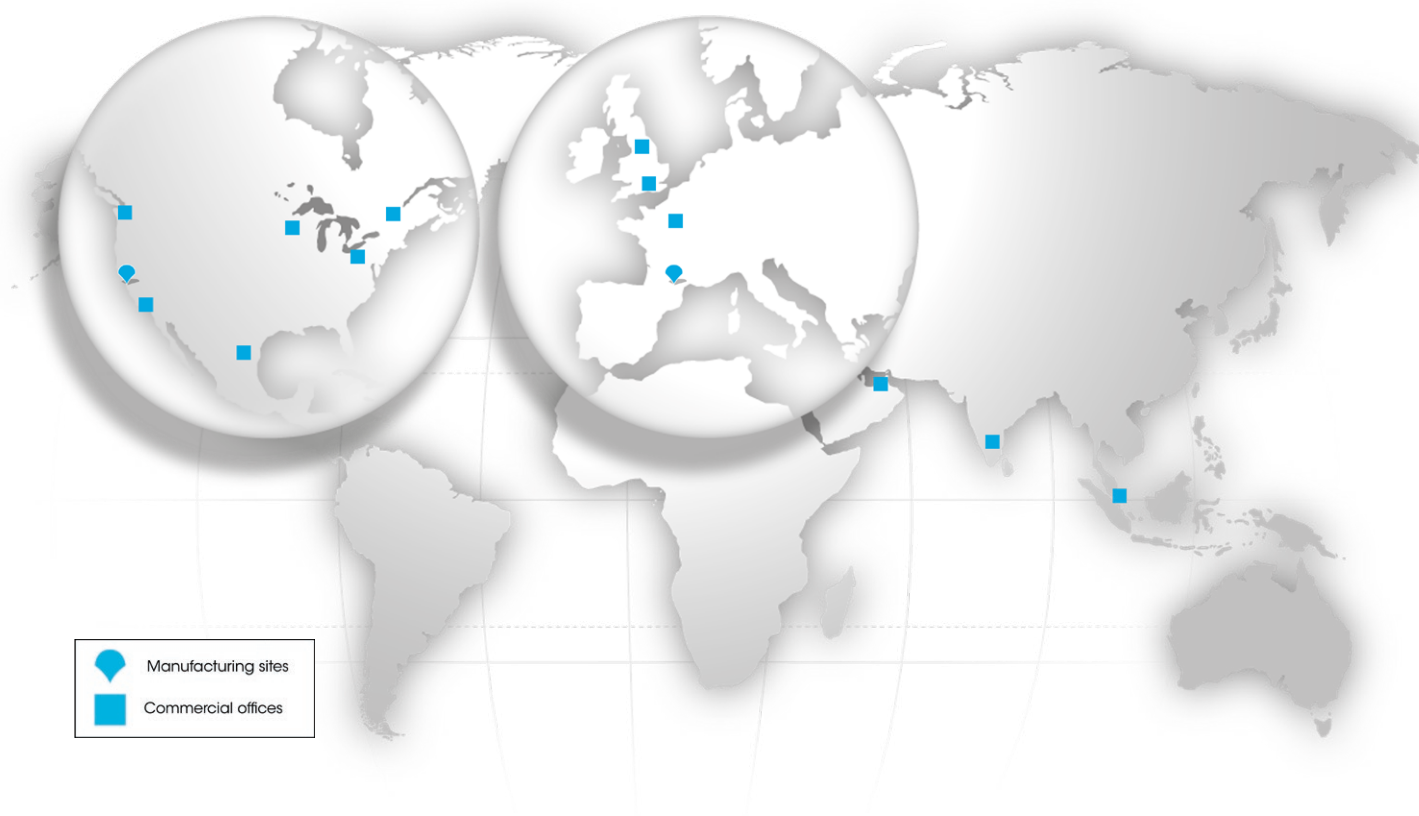


For more information contact us: zipchem@addevmaterials.com

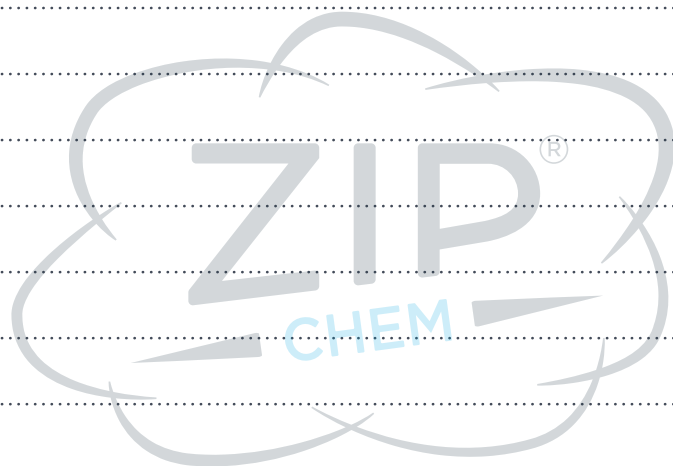


INTERNATIONAL PRESENCE

The ADDEV Materials Group:
Being international while providing local service



Our locations are settled in the heart of the aeronautical industrial areas in North America, Europe and Asia to assist you in carrying all your projects.



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