



Aerospace & Defense Approvals & Conformance Testing



Coating & Paint Removers



Aircraft Cleaners & Surface Treatments



Manual Cleaners



Solutions for Aircraft Components



Gas Path Turbine Engine Cleaners



Avionics Cleaners



COATING & PAINT REMOVERS

B&B™ 9095 Hydrogen peroxide activated paint remover

Military

U.S. Air Force TO 1-1-8 Application and Removal of Organic Coatings, Aerospace and Non-Aerospace Equipment
 U.S. Air Force TO 1-1-24 Composite Coating Removal
 C-130 Local Engineering Specification
 Boeing DPM 5549-1, Stripper, Neutral, Non-embrittling
 Boeing BMS 10-144
 Douglas DPS 9.316-3 Stripping of Organic Coatings
 Lockheed Martin EMAP G32.2356
 Lockheed Martin C-130 No Technical Objection
 NSN # 6850-01-529-0306, 6850-01-529-0302, 6850-01-612-8184

Testing

Air Force Purchase Description Remover, Non-Chlorinated Solvent Type, For Difficult-To-Remove Finishes
 Purchase Description (#OC-ALC 2008-01) Paint Remover, Paint Remover, Environmentally Acceptable, For Difficult-to-Remove Coatings
 TT-R-2918A (19-Mar-2001) Remover, Paint, No Hazardous Air Pollutants (HAPs) ASTM F 519, 200 hrs at 75% load
 ASTM F 483, ASTM F 1110, ASTM F 1080
 Boeing Alloy Steel Surface Corrosion Test, 4130 Steel, Bare, 46-48 hrs at 90°F-100°F
 Dissimilar Metal Corrosion Test, Al/Steel, Al/St Cad Plate, Al/Ti, Ti/St, Ti/Mg, Al/Mg
 Residue Corrosion Test, Al/Steel, Al/St Cad Plate, Al/Ti, Ti/St, Ti/Mg, Al/Mg

B&B™ 5095 Hydrogen peroxide activated paint remover

Military

U.S. Air Force TO 1-1-8 Application and Removal of Organic Coatings, Aerospace and Non-Aerospace Equipment
 Tinker AFB Purchase Description

Testing

Boeing D6-17487
 Douglas CSD #1
 ASTM F 483, ASTM F 519

B&B™ 3095 Hydrogen peroxide activated paint remover

Testing

Boeing D6-17487, Revision T, Table I: Requirements for Paint Removers
 Douglas CSD #1 Type III Paint Remover
 SAE MA4872A Paint Stripping of Commercial Aircraft
 ASTM F 519, ASTM F 483, ASTM F 1110, ASTM F 1080
 Corrosion Test for Dissimilar Metals, Al/Cad Plate, Al/Ti, Ti/Cad Plate, Ti/Mg

B&B™ 5085 Acid activated paint remover

Military

MIL-R-81903 Effects on Metals

B&B™ 5151-B Polysulfide paint and sealant remover

Military

U.S. Air Force TO 1-1-8 Application and Removal of Organic Coatings, Aerospace and Non-Aerospace Equipment

B&B™ 5151-M Polysulfide paint and sealant remover

Military

TT-R-2918 Type II

B&B™ 9201 Immersion paint remover

Military

MIL-R-83936



AIRCRAFT CLEANERS & SURFACE TREATMENTS

B&B™ PCR-1640 Prepaint Corrosion Remover

Testing

SAE AMS 1640 Corrosion Removing Compound, for Aircraft Surfaces



AIRCRAFT CLEANERS & SURFACE TREATMENTS

B&B™ JET-7 Aircraft exterior cleaner

Military

MIL-PRF-87937D, Cleaning Compound, Aerospace Equipment, Type IV, Heavy Duty, Water Dilutable Cleaning Compound
NSN # 6850-01-433-0873, 6850-01-429-2371

Testing

Airbus AIMS 09-00-002, tested at 100% and 10%
Boeing D6-17487 Rev T, tested at 100% and 10%
ASTM F 1110, ASTM F 483, ASTM F 519, ASTM D 56, ASTM F 484, ASTM F 502, ASTM F 485

B&B™ RE-GEL Gelled aircraft exterior cleaner

Military

MIL-PRF-87937D Cleaning Compound, Aerospace Equipment, Gel-Type Cleaning Compound Type III
NSN # 6850-01-390-9530, 6850-01-390-9453

Testing

Airbus AIMS 09-00-002, tested at 100% and 10%
Boeing D6-17487, Rev T, tested at 100% and 10%
ASTM F 1110, ASTM F 483, ASTM F 519, ASTM D 56, ASTM F 484, ASTM F 502, ASTM F 485

B&B™ 8525 Aircraft exterior cleaner for wheel wells, wing butts, undercarriage

Military

MIL-PRF-85570E, Cleaning Compounds, Aircraft, Exterior, Type II, General purpose, Non-solvent
NSN # 6850-01-235-0872, 6850-01-236-0128

Testing

Boeing D6-17487

B&B™ 1995 Gelled aircraft exterior cleaner for wheel wells, wing butts, undercarriage

Military

MIL-PRF-85570E, Cleaning Compounds, Aircraft, Exterior, Type V, Gel-type wheel well degreaser, low solvent, (<10%)
NSN # 6850-01-234-0219, 6850-01-235-7458

B&B™ JET-22C Ready-to-use aircraft exterior cleaner

Testing

Airbus AIMS 09-00-002, tested at 100% and 10%
Boeing D6-17487 Rev T, tested at 100% and 10%
Douglas CSD #1, tested at 100%
AMS 1526C, tested at 100%

B&B™ 1986S Thickened aircraft exterior cleaner for hard-to-remove soils

Commercial

Bombardier Aerospace, No Technical Objection Memo, Alternative Aircraft Cleaning Products Ref MPE/FS/05/004

Testing

Boeing D6-17487
Douglas CSD #1 Cadmium Removal testing
MIL-C-85570, Type V

B&B™ 1200 MAE Aircraft exterior cleaner for hard-to-remove soils

Commercial

Bombardier Aerospace, No Technical Objection Memo, Alternative Aircraft Cleaning Products Ref MPE/FS/05/004

Testing

Boeing D6-17487 Rev L

B&B™ 786 RE Multi-functional aircraft exterior and interior hard surface cleaner

Commercial

American Airlines CPN 4014031
Bombardier Aerospace, No Technical Objection Memo, Alternative Aircraft Cleaning Products Ref MPE/FS/05/004

Testing

AMS 1550A, Cleaner for Interior Materials of Aircraft, Biodegradable, Water-Base, (tested at 1:7 dilution)
Boeing D6-17487, Revision H, tested as received and at 1:7 dilution
Douglas CSD #1, tested as received and at 1:7 dilution

B&B™ 786 REA Concentrated aqueous aircraft exterior cleaner for heavy soils

Commercial

American Airlines CPN 4014031



AIRCRAFT CLEANERS & SURFACE TREATMENTS

B&B™ Contact E Rubberized spot cleaner for aircraft exteriors

Military

MIL-PRF-85570E, Cleaning Compounds, Aircraft, Exterior, Type IV, Rubberized spot cleaner
NSN # 6850-01-235-0873, 6850-01-248-9829, 6850-01-248-9830

B&B™ Contact X Abrasive spot cleaner for thrust stains

Military

MIL-PRF-85570E, Cleaning Compounds, Aircraft, Exterior, Type III, Abrasive spot cleaner
NSN # 6850-01-232-9164

B&B™ Contact XL Aircraft cleaner-polish

Commercial

American Airlines CPN 4014028
Continental Airlines (now United Airlines)

Testing

Boeing D6-17487
Douglas CSD #1

BIOACT™ 108 Corrosion Inhibiting Compound (CIC) Remover

Commercial

American Airlines CPN 4214836
Boeing BAC 5750 Solvent Cleaning, PSD 6-100, BMS11-14A (approved metals and blanket cleaning)
Boeing BAC 5355 Fabrication and Rework of Thermal Acoustic Blankets, PSD 6-12 (also listed in PSD 6-8)

Testing

Airbus AIMS 09-00-002 (excludes acrylic and polycarbonate crazing)
AMS 1526C (excludes flash point, effect on transparent acrylic plastics, and storage stability)
Boeing D6-17487 (excludes acrylic crazing)
Douglas CSD #1 (excludes acrylic crazing)
ASTM F 1110, ASTM F 1111, ASTM F 483, ASTM F 502, ASTM F 519, ASTM F 509, ASTM F 485

BIOACT™ 145 Corrosion Inhibiting Compound (CIC) Remover

Commercial

American Airlines CPN M018347
Gulfstream Aerospace Standard GAS115H for Solvent Cleaner/Degreaser, Mixed Hydrocarbons, Part# GAS115H1

Testing

Airbus AIMS 09-00-002 (excludes acrylic and polycarbonate crazing)
Boeing D6-17487 (excludes acrylic crazing)
Douglas CSD #1 (excludes acrylic crazing)
ASTM F 945, ASTM F 1110, ASTM F 502, ASTM F 519, ASTM F 485, ASTM F 483

B&B™ 729 Interior cleaner for plastic surfaces such as lap trays, paneling, bulkheads

Testing

Testing liquids For Use on Polycarbonate Components, Boeing Service Letter 707, 737, 737, 747, Lexan 9600-116

B&B™ Sparkle A Windshield glass cleaner

Commercial

American Airlines CPN M017711
Alaska Airlines
Continental Airlines (now United Airlines)
Horizon Air
Piedmont Airlines
SkyWest Airlines

B&B™ Odor Out Deodorizer for aircraft cabin interiors

Commercial

American Airlines CPN M017830
Continental Airlines (now United Airlines)

RE-ENTRY™ Prepsolv Adhesive remover

Commercial

Boeing BAC 5750 Solvent Cleaning Revision M (released April 22, 2011)



MANUAL CLEANERS

BIOACT™ 105 All-purpose manual cleaner and degreaser

Commercial

AMS 3167 QPL Approved, AMS-3167B:2005 Class 1, Form 1, Types 1 and 2 – *Solvents, Wipe for Cleaning Prior to Application of Primer and Top Coat Materials, or Sealing Compounds*
AMS 3819 (BIOACT 105 Pre-Saturated Wipes, Aerospace Grade Wipes Material)
American Airlines CPN M018325
Bell Helicopter Bulletin No: 1915 Solvents, Blended Organic, Cold Degreasing (Liquid and Pre-Saturated Wipes)
Bombardier BAPS 180-009 General (G) Manual Solvent Cleaner
Bombardier Consumable Products Manual 8-12A – SOLVENT, Degreaser, Ele Wiring Harness, Components (Q400)
Bombardier TASK 20-30-00-110-805 Chem Cleaning of the Ele Wiring Transition, Adapter, Overbraid (Q400 AMM)
Bombardier TASK 61-20-36-110-801 Chemical Cleaning of the Propeller Electronic Control Unit (Q400 AMM)
Bombardier TASK 20-30-110-801 Chemical Cleaning of the Electrical Wiring Component (Q400 AMM)
Bombardier TASK 20-30-00-110-802 Ext Chemical Cleaning of the Ele Wiring Connector and the Backshell (Q400 AMM)
Bombardier TASK 20-30-00-110-803 Internal Chemical Cleaning of the Electrical Wiring Connector (Q400 AMM)
Bombardier TASK 20-30-00-150-802 Stripping of the Corrosion Inhibiting and Corrosion Preventative Compounds (Q400 AMM)
Bombardier TASK 51-21-26-340-801 Application of RTV Silicone Adhesive (Q400 AMM)
CFM International CP# 2719 Rev 76
GE Aviation C04-251
GE Aviation Cleaning Method No 23 Hand-Wipe Degreasing, SPM Task 70-21-23-110-053
GE Aviation Alt to SPM TASK 70-21-01-110-001 Cleaning Method No 1 Solvent Degreasing
GE Aviation Alt to SPM TASK 70-21-22-110-042 Cleaning Method No 22 Light Duty Aqueous Cleaning
Gulfstream Aerospace Standard GAS115H for Solvent Cleaner/Degreaser, Mixed Hydrocarbons, Part# GAS115H1
Honeywell C5049 Cleaning of Titanium and Titanium Alloys
International Aero Engines (IAE) CoMat 01-506 (Liquid), CoMat 01-506A (Pre-saturated Wipes)
Pratt & Whitney PMC 8929 Hand Wiping Solvent, SPOP 208 Degreasing of Parts by Solvent Wiping (SPM Rev 120, Part# 585005)
Pratt & Whitney PMC 8929 Hand Wiping Solvent, POP 1800-U Masking of Parts Prior to Selective Painting, Chemical Processing, Painting, Stripping
Pratt & Whitney PWA 36604 Rev D Hot Corrosion (AMS 4037)
Rolls-Royce CSS No 255 Type A Non-Halogenated Organic Solvent Cleaner (MLC104)
Rolls-Royce OMat 1/2575 Solvent Cleaner
United Airlines Engine Parts Cleaning, Part #: SOL3001-17 for BIOACT 105 Precision Cleaner
United Airlines Engine Parts Cleaning, Part #: SOL3001-17TWL10X12 for BIOACT 105 Pre-Saturated Wipes

Military

NSN # 7930-01-596-8655

Testing

Airbus AIMS 09-00-002 (excludes acrylic and polycarbonate crazing)
AMS 1526C (excludes flash point, effects on transparent acrylic plastics, and storage stability)
Boeing D6-17487 (excludes acrylic crazing)
Douglas CSD #1 (excludes acrylic crazing)
ASTM F 945, ASTM F 1110, ASTM F 502, ASTM F 519, ASTM F 485, ASTM F 483, ASTM F 2111, ASTM D 3941, ASTM D 2879, ASTM D 1901, ASTM D 1613, ASTM B 117, ASTM G 46
Dissimilar Metal Corrosion (AMS 3167)
Cleaning Prior to Painting – Removal of Contaminants (AMS 3167)
Cleaning Prior to Sealant – Removal of Contaminants, (AMS 3167)
Removal of Uncured Sealant (AMS 3167)
Removal of AMS 3100 Adhesion Promoter (AMS 3167)
Effects on Fuel Tank Sealants (AMS 3167)
Effects on Carbon/Epoxy Composites (AMS 3167)
Effects on Polyamide Insulated Wire (AMS 3167)
Cold Storage Stability (AMS 3167)
Paint Softening Test (Airbus AIMS 09-00-002)

BIOACT™ 108 Manual cleaner and degreaser

Commercial

American Airlines CPN 4214836
Boeing BAC 5750 Solvent Cleaning, PSD 6-100, BMS11-14A (approved metals and blanket cleaning)
Boeing BAC 5355 Fabrication and Rework of Thermal Acoustic Blankets, PSD 6-12 (also listed in PSD 6-8)

Testing

Airbus AIMS 09-00-002 (excludes acrylic and polycarbonate crazing)
AMS 1526C (excludes flash point, effect on transparent acrylic plastics, and storage stability)
Boeing D6-17487 (excludes acrylic crazing)
Douglas CSD #1 (excludes acrylic crazing)
ASTM F 1110, ASTM F 1111, ASTM F 483, ASTM F 502, ASTM F 519, ASTM F 509, ASTM F 485
Paint Softening Test (Airbus AIMS 09-00-002)



MANUAL CLEANERS

AXAREL™ 1000 Manual cleaner and degreaser with very low odor

Commercial

Airbus Consumable Materials List (CML) Product Code 865100, Application Code 08BBB1
Airbus A330 AMM Item 11-002
American Airlines CPN 4212182
Boeing BAC 5750 Solvent Cleaning (ref MIL-PRF-680) (PSD 6-88)
Embraer (ref MIL-PRF-680)
Honeywell ref MIL-PRF-680 qualifications (Type I)
Lockheed Martin STP57-201, Rev. H Cleaning of Carbon and Low Alloy Steels (EPS G41.14) (*MIL-PRF-680 supersedes P-D-680*)
Pratt & Whitney PMC 9001 Stoddard Solvent (MIL-PRF-680, Type I, II or III)
Pratt & Whitney PMC 9045, POP-350 Cleaning / wipe degreasing of metallic parts for general cleaning, and of metallic parts in preparation for brazing or welding
Rolls-Royce CSS267 Solvent
Rolls-Royce OMat 102
United Airlines SOL3001-1

Military

MIL-PRF-680 Degreasing Solvent Type I Low Flash Point (SD-1) (DS-0020)
NSN # 6850-01-474-2302, 6850-01-474-2309, 6850-01-474-2313, 6850-00-264-9039

Testing

ASTM D 1353, ASTM D 1296, ASTM D 130, ASTM F 1110, ASTM F 483, ASTM F 945

AXAREL™ 2000 Manual cleaner and degreaser with very low odor

Commercial

Airbus Consumable Materials List (CML) Product Code 865100, Application Code 08BBB1
Airbus A330 AMM Item 11-002
American Airlines CPN 4212184
Boeing BAC 5750 Solvent Cleaning (ref MIL-PRF-680) (PSD 6-88)
Embraer (ref MIL-PRF-680)
Honeywell ref MIL-PRF-680 qualifications (Type II)
Lockheed Martin STP57-201, Rev. H Cleaning of Carbon and Low Alloy Steels (EPS G41.14) (*MIL-PRF-680 supersedes P-D-680*)
Messier-Bugatti Component Maintenance Manual 2-1577 Series (Task 32-41-81-100-801-A01) per MIL-PRF-680
Pratt & Whitney PMC 9001 Stoddard Solvent (MIL-PRF-680, Type I, II or III)
Rolls-Royce CSS267 Solvent
Rolls-Royce OMat 102
UTAS Goodrich Wheels and Brakes Component Maintenance Manual per MIL-PRF-680

Military

MIL-PRF-680 Degreasing Solvent Type II High Flash Point (SD-2) (DS-0018)
NSN # 6850-01-474-2319, 6850-01-474-2317, 6850-01-378-0698, 6850-01-474-2316, 6850-00-637-6135

Testing

ASTM D 1353, ASTM D 1296, ASTM D 130, ASTM F 1110, ASTM F 483, ASTM F 945

AXAREL™ 4000 Manual cleaner and degreaser with very mild citrus odor

Commercial

Airbus Consumable Materials List (CML) Product Code 865100, Application Code 08BBB1
Airbus A330 AMM Item 11-002
Boeing BAC 5750 Solvent Cleaning ref MIL-PRF-680 (PSD 6-88)
Embraer ref MIL-PRF-680
Honeywell ref MIL-PRF-680 IV
Lockheed Martin STP57-201, Rev. H Cleaning of Carbon and Low Alloy Steels (EPS G41.14) (*MIL-PRF-680 supersedes P-D-680*)

Military

MIL-PRF-680 Degreasing Solvent Type IV High Flash Point with Citrus Odor (SD-4) (DS-0023)
NSN # 6850-01-472-2722, 6850-01-472-2717, 6850-01-472-2719

Testing

ASTM D 1353, ASTM D 130, ASTM F 1110, ASTM F 483, ASTM F 945

RE-ENTRY™ Prepsolv Citrus-based manual cleaner designed for degreasing and adhesive removal

Commercial

Boeing BAC 5750 Solvent Cleaning Revision M (released April 22, 2011)



MANUAL CLEANERS

AXAREL™ 4100 Manual cleaner and degreaser

Commercial

Rolls-Royce CSS No. 255 Type A Non-Halogenated Organic Solvent Cleaner (MLC104)
Rolls-Royce OMat 1/257M Solvent Cleaner
UTAS UTC Aerospace Systems Goodrich Actuation Systems 981-100-020 Issue 4 Solvent Degreasing

Military

NSN # 8010-01-535-0740

Testing

ASTM F 945
SAE ARP 1755B

AXAREL™ 6100 Manual cleaner and degreaser

Commercial

Bell Helicopter Bulletin No 1915, Solvents, Blended Organic, Cold Degreasing
Rolls-Royce CSS No 255 Type A Non-Halogenated Organic Solvent Cleaner (MLC104)
UTAS UTC Aerospace Systems Goodrich Actuation Systems 981-100-020 Issue 4 Solvent Degreasing

Testing

Pratt & Whitney Hot Corrosion Testing of Standard Gas Turbine Engine Alloys (AMS 4037, 4375, 6359, 5508, 5536, 5544, 5608)
ASTM F-945 (20% and 100%)
SAE ARP 1755B



SOLUTIONS FOR AIRCRAFT COMPONENTS

CleanSafe™ 787C Very low-foaming cleaner for spray parts washer

Commercial

Bell Helicopter Material Code M/C 2100-00097
Boeing BAC 5763 Type II Grade A Emulsion Cleaning and Aqueous Degreasing (PSD 6-57)
Boeing BAC 5749 Alkaline Cleaning (PSD 6-153)
CFM International CP # 2735
Engine Alliance GP7000 SPM EAP-2202, Aqueous Cleaner, Immersion Cleaning
GE Aviation C04-289 Cleaner, Mild Alkaline listed in GE SPM 70-21-22 Light Duty Aqueous Cleaning (S1207 – Light Duty Alkaline Cleaner – C04-289) Appendix F. Recommended
Practice for Certifying Agent Approval of Cleaning Products Used on Metallic Jet Engine Hardware (Sec. 3.1.1, -.4, -.5, -.6, -.9, -.10, -.12)
Honeywell C5012 Aqueous Cleaning in accordance to EMS 53170 Material Requirements for Aqueous and Semi- Aqueous Degreasing (Type I, II Cleaner)
International Aero Engines (IAE) CoMat 01-565
Messier-Dowty PCS-2621 for use on all materials and coatings on Messier-Dowty parts (Memo LMP 09/031)
Pratt & Whitney SPMC 190, SPS 190 Immersion Cleaning for SPOP 209 Degreasing of Parts by Aqueous Cleaning
Pratt & Whitney PMC 1465, PS 437 Alkali Cleaner (Immersion) for POP 1800-U Masking of Parts Prior to Selective Painting, Chemical Processing, Painting or Stripping
Pratt & Whitney PMC 1465, PS 437 Alkali Cleaner (Immersion) for POP 573-AD Alkali Cleaning (Immersion)
Pratt & Whitney PMC 1465, PS 436 Alkali Cleaner (Spray Wash) for POP 581-R Alkali Cleaning in Cabinet-Type Automatic Spray Wash Equipment
Pratt & Whitney PWA 36604 Revision
Rolls-Royce CSS204 Aqueous Cleaners (MLC104 ISSUE 18 - APRIL 2009)
Rolls-Royce OMat 1/24AL Aqueous Cleaner
Safran In-1500 Products Used for Degreasing-Alkaline and Detergent Products
Spirit AeroSystems SPS 107630 Emulsion Cleaning and Aqueous Degreasing
United Services (United Airlines) CLE3007-34

Military

Boeing Defense Systems HMS20-1267/-2125/-2126/-2127/-2128/-2412

Testing

ASTM F 519, ASTM F 483, ASTM D 816, ASTM F 945, ASTM F 1111, ASTM F 1110, ASTM F 502, ASTM E 1447
SAE ARP 1755B
Wet Adhesion Tape Test, MIL-DTL-83488d
Honeywell EMS 53170 (Chem. Analysis, Cleaning Ability, Etch Rate, Cleaning Prior to FPI)

CleanSafe™ 686 Aqueous immersion and ultrasonic cleaner

Testing

ASTM F 1111 (10% Conc.), ASTM F 484, ASTM F 519, ASTM F 945-06 (10% on AMS 4916)



SOLUTIONS FOR AIRCRAFT COMPONENTS

LENIUM™ FHD Vapor degreasing solvent

Commercial

American Airlines CPN 4211861
Boeing BAC 5408 Vapor Degreasing Specification (PSD 6-66)
Boeing BAC 5750 Solvent Cleaner
Lockheed Martin EMAP G41.149
Rolls-Royce OMat 1/21E Vapor Degreasing
Safran Power Systems Mono-Solvent Vapor Degreasing. Process Specification NO: 914-014-078 to 085. Title: Solvent and Aqueous Degreasing and Cleaning. Issue: 9

Testing

Boeing D6-17487
Douglas CSD #1
ASTM F 519, ASTM F 1110, ASTM F 502, ASTM F 945, ASTM F 485, ASTM F 483
SAE ARP 1755B

LENIUM™ GS Vapor degreasing solvent

Commercial

Bell Helicopter Bulletin No.: 1918 n-Propyl Bromide, Vapor Degreasing Grade
Boeing BAC 5408 Vapor Degreasing Specification (PSD 6-68)
Embraer (per ASTM D6368)
Lockheed Martin EMAP G41.149
Messier-Dowty PCS-2620, Steels – Iron Based Alloys
Praxair ID# GDE 10055434
Safran In-1500 Products Used For Degreasing-Organic Solvents (n-Propyl Bromide)
Scott Aviation SMP No.: 7700009 Rev AP, Cleaning of Components and Assemblies For Use in Breathing Equipment
UTAS UTC Aerospace Systems LGPS 1400 Solvent Cleaning/Degreasing

Testing

ASTM F 519, ASTM F 1110, ASTM F 945

BIOACT™ 280 Bio-based cleaner for masking wax

Commercial

GE Aviation Master Cleaner List 3.6.5, GE Aviation SCWC, Semi-Aqueous Immersion Cleaners (100%)
GE Aviation General parts cleaner and as a plating wax remover on GEAE and CFMI engine hardware
Honeywell Process Specification C7010, Rev H for dewaxing and general cleaning of mechanical hardware
Honeywell Tested to EMS 53170 Rev C 10-21-97 Type 1 Material Requirements for Aqueous Cleaning and Semi-Aqueous Degreasing, Tests A,B,C,F,G
International Aero Engines (IAE) CoMat 01-460
Pratt & Whitney PMC 8913-1,-2 Wax Removal Solvent, SPOP 37 Method 2 Removal of Plating Wax (SPM Rev 120, Part #585005)
Pratt & Whitney PMC 8913-1,-2 Wax Removal Solvent, POP 1800-U Masking Parts Prior to Selective Painting, Chemical Processing, Painting, Stripping
Pratt & Whitney MCL E-205 Titanium Stress Corrosion Test

Military

NSN # 7930-01-596-8654

Testing

ASTM F 1110, ASTM F 2111, ASTM F 945, ASTM F 519

BIOACT™ 280E Bio-based cleaner for masking wax

Commercial

CFM International CP# 2720 Rev 76
GE Aviation 70-80-04 Solvent, Wax Removal (C04-287)
GE Aviation Master Cleaner List 3.6.5, GE Aviation SCWC, Semi-Aqueous Immersion Cleaners (100%)
International Aero Engines (IAE) CoMat 01-460
Pratt & Whitney PMC 8913-1,-2 Wax Removal Solvent, SPOP 37 Method 2 Removal of Plating Wax (SPM Rev 120, Part #585005)
Pratt & Whitney PMC 8913-1,-2 Wax Removal Solvent, POP 1800-U Masking Parts Prior to Selective Painting, Chemical Processing, Painting, Stripping
Pratt & Whitney MCL E-205 Titanium Stress Corrosion Test
Rolls-Royce OMat 1/288D Wax Remover
Rolls-Royce CSS No 254 Class A Semi-Aqueous Cleaning Fluids Suitable on Metallic Materials as CM0000044 - Class A: BIOACT 280 MLC104/1)

Military

NSN # 7930-01-596-8654

Testing

Boeing D6-17487
ASTM F 945, ASTM F 502, ASTM F519 93, ASTM F 1110, ASTM F 2111
SAE ARP 1755B



SOLUTIONS FOR AIRCRAFT COMPONENTS

AEROWAX™ MT Masking wax for selective plating

Commercial

Pratt & Whitney PMC 9551 Masking Wax Compound

Testing

Pratt & Whitney PWA 36604 Revision D Stress Corrosion

AXAREL™ 56 Solvent emulsion cleaner

Commercial

Boeing BAC 5200 Cleaning, Preserving and Re-lubricating Anti-Friction Bearings, Method II A Pressure Spray Cleaning (PSD 6-3)
Boeing BAC 5763 Type II Emulsion Cleaning and Aqueous Degreasing (5-25% in Spray; 5-100% in immersion)
GE Aviation Master Cleaner List 3.6.5, GE Aviation SCWC Aqueous Immersion Cleaners and Water-Based Spray Cleaners (25%)
Messier-Dowty PCS-2620 for use on all materials and coatings on Messier-Dowty parts (Memo LMP 09/031)

Testing

ASTM F-519

AXAREL™ 2000 Parts washer solvent with very low odor

Commercial

Airbus Consumable Materials List (CML) (ref MIL-PRF-680) Product Code 865100, Application Code 08BBB1
Airbus A330 AMM Item 11-002
American Airlines CPN 4212184
Boeing BAC 5750 Solvent Cleaning (ref MIL-PRF-680) (PSD 6-88)
Embraer (ref MIL-PRF-680)
Honeywell ref MIL-PRF-680 qualifications (Type II)
Lockheed Martin STP57-201, Rev. H Cleaning of Carbon and Low Alloy Steels (EPS G41.14) (*MIL-PRF-680 supersedes P-D-680*)
Messier-Bugatti Component Maintenance Manual 2-1577 Series (Task 32-41-81-100-801-A01) per MIL-PRF-680
Pratt & Whitney PMC 9001 Stoddard Solvent (MIL-PRF-680, Type I, II or III)
Rolls-Royce CS5267 Solvent
Rolls-Royce OMat 102
UTAS Goodrich Wheels and Brakes Component Maintenance Manual per MIL-PRF-680

Military

MIL-PRF-680 Degreasing Solvent Type II High Flash Point (SD-2) (DS-0018)
NSN # 6850-01-474-2319, 6850-01-474-2317, 6850-01-378-0698, 6850-01-474-2316, 6850-00-637-6135

Testing

ASTM D 1353, ASTM D 1296, ASTM D 130, ASTM F 1110, ASTM F 483, ASTM F 945

AXAREL™ PD-680-II Parts washer solvent

Commercial

Airbus Consumable Materials List (CML) Product Code 865100, Application Code 08BBB1, Old Code 11-524X

Military

Conforms A-A-59601E, Dry Cleaning and Degreasing Solvent, PD-680
NSN 6850-00-285-8011, 6850-00-274-5421

AXAREL™ 3000 Parts washer solvent with very high flash point

Commercial

Airbus Consumable Materials List (CML) Product Code 865100, Application Code 08BBB1 (ref MIL-PRF-680)
Airbus A330 AMM Item 11-002
BAC 5750 Solvent Cleaning (ref MIL-PRF-680) (PSD 6-88)
Embraer (ref MIL-PRF-680)
Honeywell ref MIL-PRF-680 qualifications (Type III)
Lockheed Martin STP57-201, Rev. H Cleaning of Carbon and Low Alloy Steels (EPS G41.14) (*MIL-PRF-680 supersedes P-D-680*)
Messier-Bugatti Component Maintenance Manual 2-1577 Series (Task 32-41-81-100-801-A01) per MIL-PRF-680
Pratt & Whitney PMC 9001 Stoddard Solvent (MIL-PRF-680, Type I, II or III)
UTAS UTC Aerospace Systems Goodrich Wheels and Brakes Component Maintenance Manual per MIL-PRF-680

Military

MIL-PRF-680 Degreasing Solvent Type III Very High Flash Point (200°F) (SD-3) (DS-0017)
NSN # 6850-01-474-2318, 6850-01-474-2320, 6850-01-474-2321

Testing

ASTM D 1353, ASTM D 1296, ASTM D 130, ASTM F 1110, ASTM F 483, ASTM F 945



SOLUTIONS FOR AIRCRAFT COMPONENTS

AXAREL™ 4000 Parts washer solvent with mild citrus odor

Commercial

Airbus Consumable Materials List (CML) Product Code 865100, Application Code 08BBB1 (ref MIL-PRF-680)
 Airbus A330 AMM Item 11-002
 BAC 5750 Solvent Cleaning (ref MIL-PRF-680) (PSD 6-88)
 Embraer (ref MIL-PRF-680)
 Honeywell ref MIL-PRF-680 qualifications (Type IV)
 Lockheed Martin STP57-201, Rev. H Cleaning of Carbon and Low Alloy Steels (EPS G41.14) (*MIL-PRF-680 supersedes P-D-680*)

Military

MIL-PRF-680 Degreasing Solvent Type IV High Flash Point with Citrus Odor (SD-4) (DS-0023)
 NSN # 6850-01-472-2722, 6850-01-472-2717, 6850-01-472-2719

Testing

ASTM D 1353, ASTM D 130, ASTM F 1110, ASTM F 483, ASTM F 945

AXAREL™ 9100 Parts washer solvent with very high flash point

Commercial

Bombardier Service Bulletin S.B. 670BA-34-027 Cleaning Pitot and Static Lines and Fittings, Sec 3.B. (CRJ: CL-600-2C10,-2D24)
 Rolls-Royce CSS No. 255 Type A Non-Halogenated Organic Solvent Cleaner (MLC104)
 Rolls-Royce OMat 1/257M Solvent Cleaner
 Safran Power Systems Co-Solvent Vapor Degreasing (w/ LENIUM IPS). Process Spec. NO: 914-014-078 to 085. Title: Solvent and Aqueous Degreasing and Cleaning. Issue: 9

Testing

Boeing D6-17487
 ASTM D 1353, ASTM D 1296, ASTM D 130, ASTM F 1110, ASTM F 483, ASTM F 945
 SAE ARP 1755A



GAS PATH TURBINE ENGINE CLEANERS

B&B™ 3100 Solvent based gas path cleaner

Commercial

CFM, CP5060
 GE Aviation, CO-140
 GE Aviation, SPM (reference MIL-PRF-85704 Type I)
 Boeing 737 Maintenance Manual, Engine Cleaning/Painting, CFM56 Engines, (CP2373) (Ref 70-10-01)

Military

MIL-PRF-85704, Cleaning Compound, Type I, Solvent emulsion cleaner concentration containing aromatic hydrocarbon solvents for use in starter cranked engine cleaning operations only
 MIL-C-85704
 NSN #6850-00-181-7594, 6850-00-181-7594

B&B™ TC-100 Concentrated aqueous based gas path cleaner for turbine engines, APUs, heat exchangers

Commercial

Airbus Application Code 08AJA9, Aqueous Cleaner, Turbine Engine Gas Path
 Boeing, APU In-Situ Cleaning, Prop-BN82T-C89-461
 Boeing 747 Maintenance Manual, 49-11-00, Compressor Washing Fluid (Ref 20-30-01)
 Boeing 737-600/700/800/900 U-File, Bulk and Consumable Materials
 CFM, CP5060
 GE Aviation, C04-140
 Honeywell Aerospace CMM 182820 D. Aqueous Cleaning (Subtask 21-50-14-100-004-A01) Heat Exchanger Cleaning
 Honeywell Aerospace CMM 182820 D. Steam Cleaning (Subtask 21-50-14-100-005-A01) Heat Exchanger Cleaning
 Continental Airlines (now United Airlines)
 Pratt & Whitney Canada CPMC 79038

Military

MIL-C-85704, Type IIA, Cleaning Compound, Turbine Engine Gas Path
 NSN # 7930-01-367-0983, 7930-01-367-0984

Testing

Boeing D6-17487 Rev
 Rolls-Royce MSRR 9914, Testing to Appendix 1, 3, 4, 5, 6, 10 and Flash Point
 AMS 1550A Cleaner for Interior Materials of Aircraft, Biodegradable, Water-Base



GAS PATH TURBINE ENGINE CLEANERS

B&B™ TC-100N-3 Concentrated aqueous based gas path cleaner

Commercial

Airbus Application Code 08AJA1, Aqueous Cleaner, Turbine Engine Gas Path (ref MIL-PRF-85705 Ty II)

American Airlines CPN 4151795 (5 Gallon), 4144002 (55 Gallon)

Boeing 737-600/700/800/900 U-File, Bulk and Consumable Materials

GE Aviation, SPM (reference MIL-PRF-85704 Type II)

Honeywell Aerospace CMM 182820 D. Aqueous Cleaning (Subtask 21-50-14-100-004-A01) Heat Exchanger Cleaning (ref MIL-PRF-85704 Type II)

Military

MIL-PRF-85704, Cleaning Compound, Turbine Engine Gas Path, Type II Aqueous cleaner concentrate containing no aromatic hydrocarbon solvents for starter cranked engine cleaning operations only

MIL-PRF-85704, Cleaning Compound, Turbine Engine Gas Path, Type III Aqueous cleaner concentrate containing no hydrocarbon solvents for use in on-line (fired) engine cleaning of specifically approved engines

NSN # 7930-01-412-2365, 7930-01-412-2366, 6850-01-372-8304, 6850-01-433-6436

Testing

Pratt & Whitney PWA 36604 Rev B, Hot Corrosion Testing, AMS 5608

B&B™ TC-100N-3-RTU Ready-to-use aqueous based gas path cleaner

Commercial

Airbus Application Code 08AJA1, Aqueous Cleaner, Turbine Engine Gas Path (ref MIL-PRF-85705 Ty II RTU)

GE Aviation, SPM (reference MIL-PRF-85704 Type II RTU)

Military

MIL-PRF-85704, Cleaning Compound, Turbine Engine Gas Path, Type II RTU Ready-to-use aqueous cleaner containing no hydrocarbon solvents for starter cranked engine, cleaning operations only

MIL-PRF-85704, Cleaning Compound, Turbine Engine Gas Path Type III RTU Ready-to-use aqueous cleaner containing no hydrocarbon solvents for use in on-line (fired) engine cleaning of specifically approved engines

NSN # 7930-01-412-2367, 7930-01-412-2368, 6850-01-370-5245, 6850-01-370-5244, 6850-01-472-1845

6850-01-472-1846



AVIONICS CLEANERS

LENIUM™ ES Electronics vapor degreasing solvent

Commercial

Lockheed Martin EMAP G41.149

Messier-Dowty PCS-2620, Steels – Iron Based Alloys

Safran In-1500 Products Used For Degreasing-Organic Solvents (n-Propyl Bromide)

UTAS UTC Aerospace Systems LGPS 1400 Solvent Cleaning/Degreasing



APPROVALS AND CONFORMANCE

Military/Defense	AXAREL PD-680-II, AXAREL 1000, AXAREL 2000, AXAREL 3000, AXAREL 4000, B&B 5095, B&B 9095, B&B 5085, B&B 5151B, B&B 5151B, B&B 9201, B&B 3100, B&B TC-100, B&B TC-100N-3, B&B TC-100N-3-RTU, B&B JET-7, B&B RE-GEL, B&B 1995, B&B 8525, B&B CONTACT X, BIOACT 105, BIOACT 280, BIOACT 280E
Airbus	B&B JET-7, B&B JET-22C, BIOACT 108, BIOACT 145, BIOACT 105, AXAREL 1000, AXAREL 2000, AXAREL 3000, AXAREL 4000
Bell Helicopter	BIOACT 105, AXAREL 6100, CleanSafe 787C, LENIUM GS
Boeing (Douglas)	B&B 9095, B&B JET-7, B&B JET-22C, B&B 8525, B&B CONTACT XL, BIOACT 108, BIOACT 145, B&B 729, RE-ENTRY Prepsolv, AXAREL 1000, AXAREL 2000, AXAREL 3000, AXAREL 4000, CleanSafe 787C, LENIUM FHD, LENIUM GS, BIOACT 280E, AXAREL 56, AXAREL 9100, B&B 3100, B&B TC-100
Bombardier	BIOACT 105, AXAREL 9100
CFM	BIOACT 105, CleanSafe 787C, BIOACT 280E, B&B 3100, B&B TC-100
Embraer	LENIUM GS (pending), AXAREL 1000, AXAREL 3000, AXAREL 2000, AXAREL 4000
Engine Alliance	CleanSafe 787C
GE Aviation	BIOACT 105, CleanSafe 787C, BIOACT 280, BIOACT 280E, AXAREL 56, B&B 3100, B&B TC-100, B&B TC-100N-3, B&B TC-100N-3-RTU
Gulfstream	BIOACT 145, BIOACT 105
Honeywell	BIOACT 105, BIOACT 280, B&B TC-100, AXAREL 1000, AXAREL 2000, AXAREL 3000, AXAREL 4000, CleanSafe 787C
International Aero Engines	BIOACT 105, CleanSafe 787C, BIOACT 280, BIOACT 280E
Lockheed Martin	AXAREL 1000, AXAREL 2000, AXAREL 3000, AXAREL 4000, LENIUM FHD, LENIUM GS, LENIUM ES
Messier-Dowty	AXAREL 2000, CleanSafe 787C, LENIUM GS, AXAREL 56, LENIUM ES
Pratt & Whitney	BIOACT 105, AXAREL 1000, AXAREL 2000, CleanSafe 787C, BIOACT 280, BIOACT 280E, B&B TC-100
Praxair	LENIUM GS
Rolls-Royce	BIOACT 105, AXAREL 4100, AXAREL 6100, CleanSafe 787C, LENIUM FHD, BIOACT 280E, AXAREL 9100
Safran	CleanSafe 787C, LENIUM FHD, LENIUM GS, AXAREL 9100, LENIUM ES
Spirit AeroSystems	CleanSafe 787C
Scott Aviation	LENIUM GS
UTAS	AXAREL 2000, AXAREL 4100, AXAREL 6100, LENIUM GS, LENIUM ES
Alaska Airlines	B&B Sparkle A
American Airlines	B&B 786 RE, B&B 786 REA, B&B CONTACT XL, BIOACT 108, B&B Sparkle A, B&B Odor Out, BIOACT 105, AXAREL 1000, AXAREL 2000, LENIUM FHD, B&B TC-100N-3
Horizon Air	B&B Sparkle A
Piedmont Airlines	B&B Sparkle A
SkyWest Airlines	B&B Sparkle A
United Airlines	B&B CONTACT XL, B&B Sparkle A, B&B Odor Out, BIOACT 105, AXAREL 1000, CleanSafe 787C, B&B TC-100

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