AVIATION ESSENTIALS











The Right Product at the right place

High Technology Solutions for Maintenance, Repair and Overhaul of Aircrafts

applied
right chemistry right people

EXTERIOR WASHING



1122 AVIOSHINE
Dry Wash Cleaner & Polish

Fast and easy one-step cleaner and polish designed to remove stubborn stains, contaminations, brake dusts, insects and traffic films from aircraft painted surfaces. Provides **long lasting protection** to all paintworks. High gloss finish to maintain & restore shiny appearance to reduce costly frequency of cleaning. **Residue free**. UV protectant. Anti-static. **Non-silicone**, Non-abrasive. Non-flammable, Odourless.
Colour: Light Brown

Approvals/Conformances:
AMS 1531B, Fokker.

A 1122 J1	5L x 4

4423 AVIOKLEEN I
Economical Exterior Cleaner

General Purpose detergent, designed for cleaning aircraft exteriors using wet washing and foam cleaning methods. Contains no chromates or other heavy metals. **Safe on all exterior and painted surfaces**. Streak free after rinsing.

Biodegradable. Non-flammable.
Dilution: up to 1:20
Colour: Clear yellow, **pH (1 %)**: 10.8 ± 0.5

Approvals/Conformances:
AMS 1526B, Boeing D6-17487 Rev. L, MIL-C-87937B Type I, Fokker.

A 4423 02	25L
A 4423 U2	205L

4935 AVIOKLEEN II
Concentrated Exterior Cleaner

Viscous **water based cleaner** for the **removal of soils** from exterior aircrafts surfaces. Suitable for **wet wash and dry cleaning application**: flap bays, wheel wells, fuselage etc.**Safe on all exterior and painted surfaces**.

Residue free. Non-flammable.
Dilution: up to 1:20
Colour: Light yellow, **pH:** 12.1 ± 0.3

Approvals/Conformances:
AMS 1526B, Boeing D6-17487 Rev. L, Fokker.

A 4935 02	25L
A 4935 U2	205L

4553 AVIOKLEEN HD
Thickened Heavy Duty Cleaner

Viscous **heavy duty water based detergent. Formulated for the removal of oily soils, grease & carbon** from bare metals and painted surfaces. Effective on landing gear, under belly, wheel wells flap bays.

Safe on all metal parts. Non-flammable.
Colour: Green Liquid, **pH:** 9.9 ± 0.1

Approvals/Conformances:
AMS 1533A.

A 4553 02	25L

CABIN INTERIOR



3180 GLASS ACT
Window Cleaner

Ammonia free mirror and window cleaner. Quickly **removes dirt and soil from glass and glazed surfaces** leaving sparkling surfaces without buffing or polishing.**No streaking or smudging**.

Safe on surrounding paintwork and furniture. Non-flammable.
Dilution: up to 1:80
Colour: Clear pale green, **pH:** 10 ± 0.3

Approvals/Conformances:
AMS 1534A, Boeing D6-17487 Rev. L.

A 3180 F6	500ML x 6 (RTU)
A 3180 J1	5L x 4

3220 SUNSHINE
General Purpose Cleaner

Premium grade **universal detergent** that works effectively on all aircraft interiors hard surfaces: galley, toilets, walls etc. **Harmless to all metals, paint, fabrics, glass, rubber etc**. Non-slip finishing, rinses right away. Spray, swab or wipe On/Off.

Non-toxic. Non-flammable.
Dilution: up to 1:50
Colour: Clear blue
Odour: Lemon, **pH (10 %):** 6.5 ± 0.5

Approvals/Conformances:
AMS 1550B, Boeing D6-17487 Rev. J, Douglas CDS#1 Issue 1989, Fokker.

A 3220 02	25L

3952 RELION
Interior Polishing Cleaner

Premium quality polishing cleaner which gives an **outstanding shine to hard surfaces in aircraft interiors**. Suitable for all surfaces including leather and naugahyde seats, laminate, plastic and polycarbonate surfaces.

Dries to a non-greasy finish, delicate fragrance, non-flammable.
pH: 7.7 ± 0.3

Approvals/Conformances:
Boeing D6-7127 Revision P, FAR Electronic Code of Federal Regulations, Part 25, Appendix F

A 3952 F6	500ML x 6
A 3952 J3	10L

7883 KLEENZYME
Biological Multi-surface Cleaner & Deodorizer

Liquid cleaner based on micro-organisms and enzymes designed **to clean and deodorize cabin, seats upholstery, carpets, toilet floors, vomit etc. Prevents pipes blockages and malodours** caused by the accumulation of organic deposits and bacteria due to the disposal of beverages, coffee, milk, juice and carbonated drinks in galley drain line. Preventive daily treatment reduces the need for mechanical cleaning. Non-corrosive.
Colour: Opaque light green, **pH:** 7.5 ± 0.5

Approvals/Conformances:
AMS 1550B.

A 7883 F6	500ML x 6
A 7883 J3	10L

WASTE LINE MAINTENANCE TREATMENT



2225 VACTREAT
Toilet Line Descaler

Acid based detergent cleaner effective to **prevent the build-up of soil deposits in vacuum toilet systems**. Prevents the narrowing of vacuum pipes. **Reduces the risks of blockage and odour** from the calcification accumulation.

Application should be conducted every 7 days. Non-flammable.
Colour: Clear green bluish

Approvals/Conformances:
Airbus N.T.O., Boeing N.T.O., B.A.E.

A 2225 I3	2L x 6
A 2225 02	25L

3471 NOVIRUCLEAN
Viricidal Sanitiser

Powerful spray and wipe **disinfectant cleaner. Reduces surface contamination by bacteria and SARS type virus**. Effective on all internal aircraft surfaces: galley surfaces, toilet cubicles & components etc. Recommended as a soak cleaning for recirculating toilet tanks.

Suitable for both on board and workshop applications.
No rinsing required. Non-flammable.
Dilution: up to 1:200, **Colour:** Clear
pH (10 %): 8.7 ± 0.5

Approvals/Conformances:
AMS 1453 (1:30), Boeing D6-7127 (1:30).

A 3471 F6	500ML x 6 (RTU 1/30)
A 3471 02	25L

3466 NOVIRUSAC GEL
Viricidal Toilet Sanitiser

New technology water-soluble gel for recirculating & vacuum toilet systems. **Produces a pleasant perfume for effective odour control and viricidal, bactericidal treatment**. Viricidal against: Hep B, HIV (AIDS), Herpes Simplex. Bactericidal against gram positive and negative strains. Non-flammable.

Dilution: 1:200 for initial treatment, subsequently 1:1000
Colour: Dark blue, **Odour:** Fruity floral
pH (0.5%): 9.5 ± 0.2.

Approvals/Conformances:
AMS 1476B, Boeing D6-17487 Rev. P, B.A.E.

A 3466 H5	20gm x 200 (water soluble sachets)
A 3466 02	25L

3479 NOVIRUSOL
Viricidal Liquid Toilet Treatment

Pleasantly perfumed liquid for effective odour control in recirculating & vacuum toilet systems. Viricidal action against Hep B, HIV (AIDS), Herpes Simplex. Bactericidal against gram positive and negative strains. Non-flammable.

Dilution: 1:50 for initial treatment subsequently 1:200
Colour: Dark blue, **Odour:** Fruity floral
pH: 8.9 (1:50 dilution).

Approvals/Conformances:
AMS 1476A.

A 3479 02	25L

COMPONENT OVERHAUL



4204 WHEELIE
Wheel and Brake Cleaner

Concentrated degreaser for oil and grease removal. Use in immersion or agitation tanks, spray washing or manual cleaning. **Safe on most metals, paints and plastics surfaces**. Recommended for all components and engine parts, landing gears, wheel hubs etc. Suitable for galley ovens and surrounding. Non-flammable.

Dilution: up to 1:4, **pH:** 10.9 ± 0.2
Colour: Clear pale yellow

Approvals/Conformances:
AMS 1537A, ARP 1755B, ASTM F945, Goodrich, Allied Signal, Honeywell, Pratt & Whitney PWA 36604 (Appendix A) Rev.07/97. , Pratt & Whitney SPOP 209.

A 4204 02	25L

8000 AVIOSOLV I
Non Flammable Cleaner

Low odour solvent, designed to **degrease and remove light & heavy soils** from component and engine parts, electrical & electronic systems. **Safe on aircraft metals** with care on some paint and plastic surfaces.

Leaves no residue. Suitable for immersion, wipe or spray application.
Colour: Clear, **Flash Point:** 62° C (TCC)

Approvals/Conformances:
BAE ABR9-0140 Type 2, Rolls Royce 1/257C, Rolls-Royce MLC104/1 CSS255 (TYPE A).

A 8000 02	25L
A 8000 U2	205L

8300 AVIOSOLV II
Fast Dry Cleaner

Quick drying solvent. Removes dust, oil, grease and general soils from component and engine parts. Effective on brake, wheel bay areas, control flaps etc. **Safe on aircraft metals** with care on some paint and plastic surfaces. **Leaves no residue**. Use as supplied for cleaning by hand or immersion.

Colour: Clear, **Flash Point:** 24° C (TCC)

Approvals/Conformances:
Boeing D6-17487 Rev. L, Douglas CSD # 1 issue 1988, Fokker, Honeywell, Rolls Royce 1/257B, Rolls-Royce MLC104/1 CSS255 (TYPE C).

A 8300 02	25L
A 8300 U2	205L

2329 SILICON-OFF
Adhesive Cleaner

Water soluble solvent, for **removal of silicone sealants, adhesives & resins** from aircraft components in cold tank applications. **Safe on magnesium, titanium and other metals**.

Can be rinsed with water or solvent.
Colour: Dark red / brown,
Flash Point: 43° C (PMCC)

Approvals/Conformances:
AMS 1386A, G.E. SPM 70-23-20, G.E. SPM 70-23-59, Pratt & Whitney SPOP 254.

A 2329 02	25L

ENGINE OVERHAUL



5840 ENGIKLEEN
Immersion Alkaline Deruster & Descaler

Powdered **caustic cleaner. Removes rust, heavy carbon deposits, a host of organic coating and heat modified metallic oxides from ferrous metals**. Used as one of a multi-stage cleaning process for the removal of heat scale and oxide formations from high temperature alloy jet engine components. Non-flammable.
Colour: white

Approvals/Conformances:
ARP 1755B, ASTM F 945, G.E. Aircraft Engines, Pratt & Whitney SPMC 200,Garret. Allied Signals.

A 5840 S5	20KG
A 5840 U1	200KG

2690 IMMERKLEEN
Immersion Acidic Cleaner / Inhibited Rust Remover

Concentrated **acidic cleaner for effective removal of rust from iron and steel and conditioning scale** for subsequent removal treatment. Removes "white-rust" from galvanised and aluminium surfaces. Cleaning process should be preceded by alkaline permanganate (A-5770) or alkaline (A-5840) treatment.
Concentration: 30-50 % v/v
Colour: Colourless

Approvals/Conformances:
ARP 1755B, G.E. Aircraft Engines, Pratt & Whitney SPMC 21, Allison Engine.

A 2690 02	25L
A 2690 U2	205L

2751 SCALITE
Immersion Acidic Cleaner Conditioner

Powdered sulphamic acidic cleaner. Effective for **removal of complex metallic scales from jet engine components** in part of a multi-stage process.Treatment should be preceded by alkaline rust remover (ie A 5840).
Concentration: 65-75 g/L.
Colour: Golden Yellow

Approvals/Conformances:
ARP 1755B, G.E. Aircraft Engines, Pratt & Whitney SPMC 201, Allied Signals.

A 2751 S5	20KG
A 2751 U1	200KG

5770 SCALEX
Immersion Alkaline Permanganate Scale Conditioner

Powdered **permanganate cleaner.** Used as one part of a multi-stage process for the **removal of complex metallic scales from jet engine components**. Used subsequently to alkaline (A-5840) or acidic treatment (A-2690). Safe on steel and other relevant metals. Non-flammable.
Colour: Deep purple

Approvals/Conformances:
ARP 1755B, G.E. Aircraft Engines, Pratt & Whitney SPMC 202, Garret.

A 5770 S5	20KG
A 5770 U1	200KG

ENGINE OVERHAUL



3922 METSOAK AK3922
Immersion Rust & Carbon Remover

Powdered heavy duty immersion cleaner containing alkalis, sequestering agent and emulsifying detergent designed for the **removal of rust, paint, combustion engine deposits and oxidised grease and oil**. Will not promote rapid re-rusting. Non-corrosive to ferrous metals including cast iron and stainless steel. Care should be taken on non-ferrous components. Economical to use. Non-flammable.
Colour: white

Approvals/Conformances:
Rolls-Royce MLC104/1 CSS244 (TYPE 2).

B 3922 02	25KG

4019 METSOLV 4019
Fast Drying Solvent Cleaner

High purity solvent designed for use as an air drying solvent cleaner and degreaser. Removes oils, greases, resins, waxes and general dirt. Suitable for use on metals, solvent resistant plastics and composite. **Can be used for the cleaning of electrical components and switchgear** thanks to its high dielectric strength. **Leaves no residue**. Low vapour toxicity. Use as supplied for cleaning by hand, spray or immersion.
Colour: Colourless,
Flash Point: >30° C (TCC)

Approvals/Conformances:
Rolls-Royce MLC104/1 CSS255 (TYPE A), Boeing D6-17487 Revision L.

E 4019 J1	5L x 4

566 PRONATUR® ORANGE SOLVENT
Environmentally Friendly Cleaner

Versatile **safe degreasing solvent**, blend of orange oils and synthetised mineral oils which effectively **dissolves grease, heavy oil, bitumen, tar**, wax, adhesive, sealant, oil based ink, chewing gum, silicone. **Leaves a light film that protects parts**. Safe on most surfaces. For all mechanical parts, engines, electric motors, tanks. Can be used in **dip tanks, ultrasonic baths, parts washers**. Non-flammable.
Colour: Yellow, **Flash Point:** >62° C (TCC)

Approvals/Conformances:
Rolls-Royce MLC104/1 CSS255 (TYPE C).

O 0566 02	25L
O 0566 U2	205L

4410 PENETONE 19
Turbine Cleaner

Concentrated solvent cleaner, designed to remove oils, greases and atmospheric soils on aircraft turbine compressor. **Effectively clean all interior and exterior parts of the turbine** (compressor air foils, turbine blades...).**Non-Flammable. Reduces corrosion** of compressor blades, stators and discs.
Colour: Pale Yellow,
Flash Point: > 60°C (TCC)

Approvals/Conformances:
Rolls Royce (Canada), Solar Turbines Incorporated: ES-9-62, Westinghouse Electric Corporation, European Gas Turbines, Siemens, ASTM D 1976, ASTM D 512, ASTM D 1888, ASTM D 482, ASTM D 93.

A 4410 02	25L
A 4410 U2	205L

PAINT STRIPPING/CORROSION INHIBITOR COMPOUND CLEANING



3062Y ULTRATAK XL HEAVY YELLOW
Cleaning Wipe for Finishing & Painting Operations

Resin impregnated textile cleaning wipe, designed to remove & collect dust, dirt, fibres, hair and other particles from prepared surfaces prior to finishing, painting or enhancement. **Non-woven polyester, lint free. High dirt absorbency prevents re-deposition of dirt**.

Contains no solvent. Strong, tear resistant.
Size (unfolded): 40cm x 60cm
Cloth weight: 52g/m^2, **Colour:** Yellow

Approvals/Conformances:
AIRBUS CMS 9352697827.

D 3062 Y	50 sachets of 10 wipes

8770 CARBEX
Decarboniser/Paint Stripper Concentrated

Powerful **2 phases solvent system**, designed to **remove carbonised oil and grease, paint, rubber moulds, adhesives and synthetic finishes from components and engine parts**. Safe on all metals.

Use by immersion at ambient temperature without agitation. Non-flammable.
Colour: Dark Brown

Approvals/Conformances:
Pratt & Whitney SPMC 41.

A 8770 U2	205L

8758 PAINT STRIP P
Heavy Duty Paint Remover

Viscous liquid, designed to **remove polyurethane, epoxy, enamel & coating from aircraft exterior painted surfaces**. Its texture clings to vertical surfaces and prevents any unwanted drips and run-off.

Apply to clean surface, allow paint to soften, scrape away and rinse with high pressure water. Non-flammable.
Colour: Yellow

Approvals/Conformances:
AMS 1375B.

A 8758 U2	205L

8293 CITRIKLEEN X520
Environmentally Friendly CIC Remover

Powerful solvent, formulated from naturally-derived citrus oils. **Quickly dissolves oils, greases, adhesives and waxes** from aircraft components. Recommended for **removing corrosion inhibition compound as well as contact adhesive** on aircraft surfaces.

Safe on all metals with care on some paint and plastic surfaces. **Leaves no residue**. Use as wipe on/wipe off or by tank immersion.
Colour: Clear colourless,
Flash Point: 45° C (TCC)

Approvals/Conformances:
Boeing D6-17487 Rev. P.

A 8293 O2	25L

GROUND SERVICE EQUIPMENT & WORKSHOP



3120 BULLDOG GOLD
Vehicle Wash

Heavy duty detergent cleaner, designed to remove dirt, soils, and road grime from light / heavy vehicles as well as handling equipment. **Suitable for use in automatic car and truck wash installations. High foaming action does not leave streaks.**

Safe on all metals, paintwork, chrome glass and plastic curtains. Non-flammable.
Dilution: up to 1:50.
Colour: Bright fluorescent Yellow
pH (1 %): 9.6 ± 0.3

A 3120 O2	25L
A 3120 U2	205L

800 REDUCE 4
High Performance Release Agent

Fast acting penetrating agent, developed for mechanical parts exposed to harsh conditions. **Cleans, penetrates, dissolves rust, lubricates and protects**. Provides a water-repellent and phosphate coating. Suitable for very seized assemblies, bolts, nuts, screws, threads, pulleys.

Frees corroded parts without thread damage. Contains no silicone.
Non-flammable.
Colour: Colourless, **Flash Point:** >60°C

Approvals/Conformances:
Boeing D6-17487R,
Airbus AIMS 09-00-002, US MIL G234111

O 0800 A2	Aerosol 250ML x 12
O 0800 J1	5L x 4

8370 EMSOL
Emulsifiable Solvent Degreaser

Concentrated **solvent degreaser** blend of aromatic solvents and biodegradable surfactant, **formulated for the removal of heavy soils, fuel oils, tars, heavy greases and tenacious lubricants**. Safe on metals, glass stone, concrete and most paints.

Care to be taken on certain paint, plastic and rubber, tar & asphalt materials. Non-flammable.
Dilution: up to 1:8
Colour: Amber.

A 8370 O2	25L

7758 MAGNUS® 758
Runway Cleaner

Non-phenolic solvent degreaser, designed to remove rubber deposits from asphalt concrete and Portland cement concrete airfield pavements. **Dissolves rubber, paints, carbonized paint, grease and sludge from metal surfaces**.

Leaves no oily residue. Safe on aluminium and steel. Economical.
Dilution: up to 1:3, **Colour:** Yellow,
pH: 11 ± 0.5

M 7758 O2	25L

"In a market characterized by a constant stream of aviation products, sustainable innovation more than ever is the key to continuous success. Research has always been and will continue to be our strategic priority to safeguard our future."

Since 1942, **ORAPI Group** has been understanding and anticipating the requirements of the Aviation Industry. Providing mechanical and maintenance engineers, Technologically Advanced Solutions, to improve process cleaning efficiency and reduction of operation costs without compromising quality and standards.

Conformance

The high quality and manufacturing standards of **APPLIED** products are continually confirmed by major O.E.M. corporations (Goodrich, Boeing, Allied Signal, Honeywell, G.E., Pratt & Whitney, Rolls Royce etc), and tested by independent certification bodies, such as: ISO standards – **9001: 2015,** military standards - **NATO, US MIL,** aeronautic standards - **ASNA, AIMS, AMS, BOEING D6.**

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