



AquaVantage® 3887 GD

IMMERSION, ULTRASONIC, AND SPRAY WASH DETERGENT

PRODUCT BENEFITS AND PROPERTIES

AquaVantage 3887 GD is a mildly alkaline aqueous degreasing chemistry. This new cleaning technology provides exceptional cleaning from light oil to carbon with long tank life and simplified tank maintenance. An excellent product choice for MRO facilities. Highly effective when used in in-line or cabinet spray wash and highly turbulated cleaning systems. AquaVantage 3887 GD can also be used in immersion and will provide a water-break-free surface. Safe on virtually all metals.

Benefits

- RoHS Compliant
- Extends Bath Life – Reduces Costs
- In-Process Corrosion Control
- Transmits Ultrasonic Cavitation at All Temperatures – Significantly Improved Soil Removal
- Low Foaming at Temperatures Greater than 120°F (49°C)
- Free Rinsing – Permits Improved Adhesion
- Reduced Cleaning Rework & Rejects
- Separates Oil Effectively for Improved Oil Removal

INDUSTRY APPROVALS & CONFORMANCE

- **American Eurocopter:** A EC QA-DCR/10-06/01
- **Boeing:** BAC 5749; Alkaline Cleaning (PSD 6-153)*
- **Boeing:** BAC 5763; Emulsion Cleaning (PSD 6-62)*
- **GE Aviation:** List of Alloy Compatible Cleaners
- **Honeywell Aerospace:** Acceptable per C5102 Rev. B
- **International Aero Engines (CoMat pending)**
- **Pratt & Whitney:** SPMC 233, SPOP 1 (Degreasing the Exterior of the Engine); SPOP 209 (Immersion Tank Method; Aqueous Spray or Wipe with Rinsing Method; Spray Wash Machine); SPS 233
- **Pratt & Whitney:** PMC 1468; PS 422 Alkali Cleaner, Immersion; PS 438 Alkali Cleaner (Spray Wash)
- **Pratt & Whitney:** POP 581 Alkali Cleaning in Cabinet-Type Automatic Spray Wash Equipment
- **Rolls-Royce:** CSS204 Type A
- **Rolls-Royce:** OMAT 1/24AM

* Including BMS 8-276 substrate

TEST COMPLIANCE

- **ARP 1755B:** Stock Loss (Cat. 10)
- **ASTM E1447:** Hydrogen pickup
- **ASTM F519:** Hydrogen Embrittlement (Type 1a)
- **ASTM F945:** Titanium Stress Corrosion (AMS 4916 & 4911 Alloys)
- **GE Aircraft Engines: ASTM F2111;** Intergranular Attack
- **GE Aviation:** Elemental Analysis Group I and Group III
- **GE Aviation:** Hot Corrosion
- **GE Aviation:** Appendix F, 3.1.1, Cyanide and Sulfide Content
- **PWA 36604 Rev. D:** Compatibility with PWA 407 Rubber
- **PWA 36604 Rev. D:** Compatibility with Non-Metallic Materials
- **PWA 36604 Rev. D:** Hot Corrosion
- **PWA 36604, MCL E-205 Type II:** Titanium Stress Corrosion
- **Sandwich Corrosion:** per Honeywell EMS 53170 Rev. C
- **Sandwich Corrosion:** per BAC 5763, Rev H

TANK MAINTENANCE

Proper maintenance of your wash system will ensure the longest possible detergent bath life, the best parts cleaning performance, and the optimal assurance against part corrosion.

Brulin has developed Maintenance Guidelines for Aqueous Detergent Tanks, a comprehensive flow chart to illustrate the process, and a step-by-step video to guide you through.

CONCENTRATION VERIFICATION

Brulin Titration Kit (Prod. No. XTRKIT)	Sample Size:	20 mL
	Titrant:	1.0 N HCl Solution
	Indicator:	Bromophenol Blue (4 Drops)
	Concentration %:	Drops Titrant x 0.39
Burette Test Method	Sample Size:	50 mL
	Titrant:	0.2 N HCl Solution
	pH Endpoint:	3.80
	Concentration %:	mL Titrant x 0.82

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MATERIAL COMPATIBILITY

AquaVantage 3887 GD is non-corrosive and non-staining to a wide variety of alloys. Some selected categories of materials compatible with AquaVantage 3887 GD include*:

Ferrous Metals: Carbon Steel • Stainless Steel • Steel

Non-Ferrous Metals & Alloys: Aluminum • Brass • Cadmium Plating • Chrome Plating • Copper (Alloys & Plating) • Hastelloy • Inconel • Magnesium & Magnesium Alloys • Monel • Ni-Cad Plating • Nickel, Nickel Alloys & Plating • Tin • Titanium & Titanium Alloys • Zinc & Galvanized

Plastic & Composites: Acrylics • High Density Polyethylene/HDPE • Nitrile Butadiene Rubber • Polyvinyl Chloride/PVCs

SOILS

AquaVantage 3887 GD removes a wide range of organic and inorganic soils. Some categories of soils that can be removed with AquaVantage 3887 GD include*:

Buffing Compounds • Coolants • Dirt (Particulate) • Fat • Flux • Food Soils • Grease • Inks • Oil (General, Cutting, Drawing Compounds, Fingerprints, Forming, Honey, Hydrocarbon, Lubricants, Self Emulsifying, Silicone/Greases, Sulfur/Chlorinated, Water Soluble)

* Material compatibility should always be confirmed via testing with specific contaminants under specific cleaning conditions.

USE RECOMMENDATIONS

System	<ul style="list-style-type: none">• Spray Wash (Batch or Continuous)• Immersion with Significant Agitation
Dilution	<p>Spray Wash: 7-15%, typically used at 10% with a range of 8-12% Immersion: 7-25%, typically used at 10% with a range of 8-12%</p> <ul style="list-style-type: none">• Minimum recommended concentration for cleaning aluminum is 5.0%• Use concentration is determined by the soils, process parameters and cleanliness level to be achieved
Cleaning Temperature Range	120-180°F (49-82°C); typically used at 140-150°F (60-66°C)
Cleaning Duration	1-30 minutes; typically parts are clean in 1-5 minutes
Rinse Temperature	A heated rinse may improve overall performance. Some OEM process specifications may require a heated rinse.
Rinse Water Quality	<p>Recommended conductivity of final rinse water:</p> <ul style="list-style-type: none">• Ultra-Clean Applications: ≤ 50 microsiemens• Precision Cleaning: ≤ 500 microsiemens• Gross Cleaning: > 500 microsiemens

To avoid spotting, it is best if the parts remain wet between processing stages.

TYPICAL CHEMICAL CHARACTERISTICS

Physical Form	Liquid
Color	Light Yellow
Odor/Fragrance	Mild Detergent
Viscosity	Water-thin
Weight	8.85 lbs/gal (1.060 g/ml)
pH of Concentrate	11.7
Flash Point (PMCC)	None to Boiling
Foaming Tendency	Low
Shelf Life	36 Months

SHIPPING, STORAGE, DISPOSAL & PREVENTION

Please refer to the Safety Data Sheet for shipping, storage, disposal and prevention guidance.

AVAILABILITY

- 5 Gal (19L)
- 55 Gal (208L)
- 275 Gal Tote (1,041L)



Scan for product details

Product No. 431042