



# AquaVantage® 3887 GD



## High Performance Spray Wash Detergent

Space & Aerospace



APE/NPE/VOC-free mild alkaline aqueous degreasing chemistry. 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

- Independent Performance Documentation – Proven Cleaning Results
- Water-Based, Dilutable Formulation – Dilutes specific to your application
- Extends Bath Life – Creates Labor Savings & Reduces Costs
- In-Process Corrosion Control
- Low Foaming at Temperatures Greater than 120°F (49°C)
- Free Rinsing – Cleaner Parts & Simplified Cleaning
- Reduced Cleaning Rework & Rejects
- No Hazardous Ingredients as listed on the SDS (w/OSHA PELs)
- SCAQMD: Certified as a Clean Air Solvent
- Separates oil effectively for easy skimming
- RoHS Compliant, APE/NPE/VOC-Free

### Industry Approvals & Conformance

- American Eurocopter: A EC QA-DCR/10-06/01
- Boeing: BAC 5749; Alkaline Cleaning\*
- Boeing: BAC 5763; Emulsion Cleaning\*
- Rolls-Royce: OMAT 1/24AM
- Rolls-Royce: CSS204 Type A
- 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)
- International Aero Engines (CoMat pending)
- GE Aviation: List of Alloy Compatible Cleaners
- Honeywell Aerospace: Acceptable per C5102 Rev. B

### Test Compliance

- ARP 1755B: Stock Loss (Cat. 10)
- ASTM F-519: Hydrogen Embrittlement (Type 1a)
- ASTM F-945: Titanium Stress Corrosion (AMS 4916 & 4911 Alloys)
- GE Aircraft Engines: ASTM F-2111; 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
- ASTM E1447: Hydrogen pickup
- Sandwich Corrosion: per Honeywell EMS 53170 Rev. C
- Sandwich Corrosion: per BAC 5763, Rev H

\* Including BMS 8-276 substrate

## TANK MAINTENANCE

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

BHC 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 for AquaVantage 3887 GD

| Bruhin 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  |



# AquaVantage® 3887 GD

## Performance Properties

### Substrates

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/PVC

### 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   | Spray Wash Systems (Batch or Continuous)<br>Immersion with Significant Agitation  |
| Dilution   | Spray Wash: 3-10%, typically used at 5%<br>Immersion: 3-20%, typically used at 5-10%<br>Minimum recommended concentration for cleaning aluminum is 5.0%                             |
| 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  | Recommended conductivity of final rinse water:<br>• Ultra-Clean Applications: ≤ 50 microsiemens<br>• Precision Cleaning: ≤ 500 microsiemens<br>• Gross Cleaning: > 500 microsiemens |
| To avoid spotting, it is best if the parts remain wet between processing stages. |   |

Authorized Representative:

## 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                              |
| pH of Working Solution: | 11.0                              |
| Flash Point (PMCC)      | None to boiling                   |
| Foaming Tendency        | Low                               |
| Calculated V.O.C        | 0% (0 g/L)                        |
| Freeze/Thaw             | Reusable after thawing & remixing |

**Shipping:** Non-hazardous for shipping by ground, sea, or air in all package sizes.

**Storage:** Store in well-ventilated areas at temperatures between 40-110°F (4-43°C). The recommended shelf life of this product is 24 months.

**Disposal:** Dispose of waste and residues in accordance with local authority requirements. Please recycle container.

**Prevention:** Wear safety glasses with side shields (or goggles). Wash hands thoroughly after handling.

## Product Number: 431042

### Availability:

- 2.5 Gal (9.5L)/2
- 5 Gal (19 L)
- 55 Gal (208L)
- 275 Gal Tote (1,041L)
- Bulk - up to 5,000 Gal (~19,000L)

BHC offers a full line of Burlin-branded industrial chemicals for industries such as Space & Aerospace, Automotive, Precision Metal, Medical and Optics.



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