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AquaVantage® 815 GD-NF

**High Performance Immersion & Ultrasonic Detergent** 

AquaVantage 815 GD-NF is a direct replacement for 815 GD. It has been designed for global regulatory acceptance and most importantly provides equivalent cleaning process performance. AquaVantage 815 GD-NF is developed for soil removal during the manufacturing or rebuilding of precision

components in immersion, mildly agitated or ultrasonic cleaning processes. Its mildly alkaline solution cavitates in ultrasonics with unparalleled performance providing a water-break-free or higher level surface cleanliness. Safe on virtually all metals. AquaVantage 815 GD-NF is non-corrosive and will not

AND PROPERTIES	Benefits <ul> <li>No REACH SVHC</li> <li>RoHS Compliant</li> <li>Extends Bath Life – Reduce</li> <li>In-Process Corrosion Contro</li> <li>Transmits Ultrasonic Cavitat</li> <li>Significantly Improved Soit</li> </ul>	ol ion at All Temperatures	<ul> <li>Free Rinsing – Permits Improved Adhesion</li> <li>Reduced Cleaning Rework &amp; Rejects</li> <li>Separates Oil Effectively for Improved Oil Removal</li> </ul>
INDUSTRY APPROVALS & CONFORMANCE	<ul> <li>Airbus: CML, 08AKB1</li> <li>BAE Systems: Process Specification R10-6024</li> <li>Boeing: BAC 5749; Alkaline Cleaning</li> <li>Boeing: BAC 5763; Emulsion Cleaning</li> <li>Bombardier Aerospace: BAPS 180-040</li> <li>Bombardier (de Havilland): PPS 31.04, Issue 21, Aqueous Degreaser</li> <li>UTC Aerospace Systems (Rohr): GSIL 2006-01</li> <li>Meggitt Aircraft Braking Systems - Fulfills Standard Practices Manual AP-842 (32-46-35) when used and maintained according to Brulin guidance.</li> </ul>		
TEST COMPLIANCE	<ul> <li>ASTM F-1110: Sandwich Col</li> <li>ASTM F-945: Titanium Stress</li> <li>ASTM F-483: Total Immersion</li> <li>ASTM F-519: Hydrogen Emmersion</li> </ul>	ss Corrosion (AMS 4916 on Corrosion	
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: Titrant: Indicator: Concentration %:	5 mL 1.0 N HCl Solution Bromophenol Blue (2 Drops) Drops Titrant x 0.81
	or	Sample Size: Titrant: Indicator: Concentration %:	10 mL 1.0 N HCI Solution Bromophenol Blue (3 Drops) mL Titrant x 0.42
	Burette Test Method	Sample Size: Titrant: pH Endpoint: Concentration %:	50 mL 0.5 N HCI Solution 3.80 mL Titrant x 1.25

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MATERIAL COMPATIBILITY	AquaVantage 815 GD-NF is non-corrosive and non-staining to a wide variety of alloys. Some selected categories of materials compatible with AquaVantage 815 GD-NF include: Ferrous Metals: Carbon Steel • Stainless Steel • Steel Non-Ferrous Metals & Alloys: Aluminum • Cadmium Plating • Chrome Plating • Copper (Alloys & Plating)* • Hastelloy • Inconel • Monel • Ni-Cad Plating • Nickel, Nickel Alloys & Plating • Titanium & Titanium Alloys Plastic & Composites: Acrylics • Epoxy Resin • High Density Polyethylene/HDPE • Nitrile Butadiene Rubber • Polypropylene/PP • Polyvinyl Chloride/PVC Other: Glass • Painted Surfaces *Minor discoloration may occur under certain conditions.		
SOILS	AquaVantage 815 GD-NF removes a wide range of organic and inorganic soils. Some categories of soils that can be removed with AquaVantage 815 GD-NF include**: Buffing Compounds • Carbon • Coolants • Dirt (Particulate) • Fat • Flux • Grease • Inks • Oil (General, Cutting, Drawing Compounds, 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 Dilution Cleaning Temperature Range Cleaning Duration Rinse Temperature Rinse Water Quality To avoid spotting, it is best if the	Immersion & Ultrasonic Tanks5-30%, typically used at 10%130-170°F (54-77°C), typically used at 140-150°F (60-66°C)1-30 minutes: typical parts are clean in 3-10 minutesA heated rinse may improve overall performance. Some OEM process specifications may require a heated rinse.Recommended conductivity of final rinse water: • Ultra-Clean Applications: < 50 microsiemens • Precision Cleaning: < 500 microsiemens • Gross Cleaning: > 500 microsiemens	
TYPICAL CHEMICAL CHARACTERISTICS	Physical Form Color Fragrance Viscosity Weight pH of Concentrate Flash Point (PMCC) Foaming Tendency	<ul> <li>Liquid</li> <li>Blue</li> <li>Mild</li> <li>Water-thin</li> <li>8.9 lbs/gal (1.07 g/ml)</li> <li>12.0 (typical)</li> <li>None to boiling</li> <li>Moderate to high</li> </ul>	
SHIPPING, STORAGE, DISPOSAL & PREVENTION AVAILABILITY	<ul> <li>Please refer to the Safety Data Sho</li> <li>5 Gal (19L)</li> <li>55 Gal (208L)</li> <li>275 Gal Tote (1,041L)</li> </ul>	eet for shipping, storage, disposal and prevention guidance.	