



AquaVantage® 815 QR-NF

HEAVY-DUTY, APE/NPE-FREE IMMERSION & ULTRASONIC DETERGENT

PRODUCT BENEFITS AND PROPERTIES

AquaVantage 815 QR-NF is a heavy-duty detergent which provides aggressive cleaning for the most tenacious soils and broad compatibility with steel, aluminum, and most substrates. It has been designed for global regulatory acceptance. AquaVantage 815 QR-NF is ideal for cleaning greases, carbon and other difficult soils in immersion, ultrasonic or mildly agitated cleaning systems. Its mildly alkaline solution cavitates in ultrasonics with unparalleled performance providing a water-break-free or higher level surface cleanliness.

Benefits

- No REACH SVHC
- RoHS Compliant
- Extends Bath Life – Reduces Costs
- In-Process Corrosion Control
- Transmits Ultrasonic Cavitation at All Temperatures – Significantly Improved Soil Removal
- Free Rinsing – Permits Improved Adhesion
- Reduced Cleaning Rework & Rejects
- Separates Oil Effectively for Improved Oil Removal

INDUSTRY APPROVALS & CONFORMANCE

- Pratt & Whitney: PMC 1339

TEST COMPLIANCE

- ARP 1755B: Stock Loss (Cat. 10)
- PWA 36604: Hot 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:	5 mL
	Titrant:	1.0 N HCl Solution
	Indicator:	Bromophenol Blue - 2 drops
	Concentration %:	Drops Titrant x 0.46
or	Sample Size:	50 mL
	Titrant:	0.5 N HCl Solution
	pH Endpoint:	3.8
	Concentration %:	mL Titrant x 0.55
Burette Test Method	Sample Size:	50 mL
	Titrant:	0.5 N Acid Solution
	pH Endpoint:	4.50
	Concentration %:	mL Titrant x 0.56

MATERIAL COMPATIBILITY

AquaVantage 815 QR-NF is non-corrosive and non-staining to a wide variety of alloys. Some selected categories of materials compatible with AquaVantage 815 QR-NF include*:

Ferrous Metals: Carbon Steel • Stainless Steel

Non-Ferrous Metals & Alloys: Aluminum • Chrome Plating • Magnesium & Magnesium Alloys • Titanium & Titanium Alloys

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

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SOILS

AquaVantage 815 QR-NF removes a wide range of organic and inorganic soils. Some categories of soils that can be removed with AquaVantage 815 QR-NF include*:

Buffing Compounds • Carbon • Coolants • Dirt (Particulate) • Fat • Flux • Grease • Inks • Oils (General, Cutting, Drawing Compounds, Fingerprints, Forming, Honey, Hydrocarbon, Lubricants, Self-Emulsifying, Silicone/Grease, Sulfur/Chlorinated, Water Soluble) • Tar & Pitch • Waxes

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

USE RECOMMENDATIONS

System	Immersion & Ultrasonic Tanks
Dilution	5-30%, typically used at 10%
Cleaning Temperature Range	130-170°F (54-77°C), typically used at 140-150°F (60-66°C)
Cleaning Duration	1-30 minutes: typical parts are cleaned in 3-10 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: <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.

- AquaVantage 815 QR-NF contains a short-term flash rust inhibitor. If longer protection is desired, consult your representative for product recommendation.

TYPICAL CHEMICAL CHARACTERISTICS

Physical Form	Liquid
Color	Blue
Odor/Fragrance	Citrus
Viscosity	Water-thin
Weight	8.86 lbs/gal (1.063 g/ml)
pH of Concentrate	12.4
Flash Point (PMCC)	None to Boiling
Foaming Tendency	High
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. 301014