



# Precision Metal

● = Conformance/  
Effectiveness

●+ = Conformance/  
Effectiveness Plus

## Immersion & Ultrasonic

SOILS*	AquaVantage HTD	AquaVantage 815 GD-NF	AquaVantage 815 QR-NF
Buffing Compounds (Melt range up to 160°F/71°C)	●	●	●+
Carbon		●	●+
Coolants	●+	●+	●+
Dirt (Particulate)	●+	●+	●+
Fat		●+	●+
Grease	●	●	●+
Inks		●	●
Oil (General)	●	●+	●+
- Cutting	●+	●+	●+
- Drawing Compounds	●+	●+	●+
- Fingerprints	●	●	●
- Forming	●+	●+	●+
- Honey		●	●
- Hydrocarbon	●+	●+	●+
- Lubricants	●+	●+	●+
- Self Emulsifying	●	●	●
- Silicone/Greases		●	●
- Sulfur/Chlorinated		●	●
- Water Soluble	●+	●+	●+
Tar & Pitch			●
Waxes (Melt range up to 160°F/71°C)			●

SUBSTRATES*	AquaVantage HTD	AquaVantage 815 GD-NF	AquaVantage 815 QR-NF
Steel	●+	●+	●+
Aluminum	●+	●+	●
Cadmium Plating	●	●	
Chrome Plating	●	●	●
Copper (Alloys & Plating)	●+	●	
Magnesium & Magnesium Alloys		●	●
Titanium & Titanium Plating	●	●+	●
Zinc & Galvanized	●		
Plastics & Composites	●	●	
Glass	●+	●	

SYSTEM	AquaVantage HTD	AquaVantage 815 GD-NF	AquaVantage 815 QR-NF
Immersion Tanks	●+	●+	●+
Ultrasonic Tanks	●+	●+	●+
Turbulation	●	●	●
Cabinet/Inline Spray			

TYPICAL CHEMICAL CHARACTERISTICS	AquaVantage HTD	AquaVantage 815 GD-NF	AquaVantage 815 QR-NF
Long Solution Life	●	●+	●+
pH of Concentrate	8.3	12.0	12.5
pH of Working Solution	8.1	11.5	11.6
Flash Point	None	None	None
Foaming Tendency: Moderate - High	High	High	High
Calculated V.O.C.	0% (0 g/L)	0.1% (1.1 g/l) (0% (0 g/l))	8.4% (89.6 g/l) (7.49% (79.6 g/L))
Storage Temperature: 40-110°F (4-43°C)	✓	✓	✓
Shelf Life (Months)	12	24	24

CLEANING RANGES	AquaVantage HTD	AquaVantage 815 GD-NF	AquaVantage 815 QR-NF
Dilution Range	5-30%	5-30%	1-15%
Typical Dilution	10%	10%	10%
Temperature Range	130-170°F (54-77°C)	130-170°F (54-77°C)	130-170°F (54-77°C)
Typical Temperature	140-150°F (60-66°C)	140-150°F (60-66°C)	140-150°F (60-66°C)

## Product Descriptions

**AquaVantage HTD\*\***  
pH-Neutral Immersion Ultrasonic Detergent with no silicates, phosphates or APE/NPE

- Neutral pH formulation provides effective cleaning for a wide range of industries.
- A safer cleaner for applications where APE/NPE's, phosphates, and silicates are not tolerated.

**AquaVantage 815 GD-NF\*\***  
The Cleaning Standard in APE/NPE-Free Immersion & Ultrasonic Detergents

- Mildly alkaline solution which cavitates in ultrasonics with unparalleled performance providing a water break-free surface.
- Use during the manufacturing of components in immersion, mildly agitated or ultrasonic cleaning processes.

**AquaVantage 815 QR-NF\*\***  
Heavy-Duty, APE/NPE-Free Immersion & Ultrasonic Detergent

- Provides aggressive cleaning for the heaviest soils found in a wide range of industries.
- Ideal APE/NPE-free detergent for heavy-duty immersion cleaning processes. Ideal for rebuild applications.

\*\*Version fulfills requirements for EU/REACH, Canada and other jurisdictions where NPE is restricted.

\* Material compatibility should always be confirmed via testing with specific substrates under specific cleaning conditions



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## Spray Wash

	AquaVantage LTS	AquaVantage 3800 GD	AquaVantage 515 NF
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### SOILS\*

	AquaVantage LTS	AquaVantage 3800 GD	AquaVantage 515 NF
Buffing Compounds (Melt range up to 160°F/71°C)		●+	●+
Carbon			●+
Coolants	●+	●+	●+
Dirt (Particulate)	●+	●+	●+
Fat		●	●+
Grease	●	●	●+
Inks	●	●+	●+
Oil (General)	●	●	●+
- Cutting	●+	●+	●+
- Drawing Compounds	●+	●+	●+
- Fingerprints	●	●+	●+
- Forming		●	●+
- Honey	●+	●+	●+
- Hydrocarbon		●	●+
- Lubricants	●+	●+	●+
- Self Emulsifying	●+	●+	●+
- Silicone/Greases	●+	●+	●+
- Sulfur/Chlorinated	●	●	●+
- Water Soluble	●	●	●+
Tar & Pitch	●+	●+	●+
Waxes (Melt range up to 160°F/71°C)			●

### SUBSTRATES\*

	AquaVantage LTS	AquaVantage 3800 GD	AquaVantage 515 NF
Steel	●+	●+	●+
Aluminum	●+	●+	●
Cadmium Plating	●+	●+	
Chrome Plating	●+	●	●
Copper (Alloys & Plating)	●+	●	
Magnesium & Magnesium Alloys	●+	●	●
Titanium & Titanium Plating	●+	●+	●
Zinc & Galvanized	●	●	●
Plastics & Composites	●	●	
Glass	●+		

### SYSTEM

	AquaVantage LTS	AquaVantage 3800 GD	AquaVantage 515 NF
Immersion Tanks	●+	●+	●+
Ultrasonic Tanks	●+	●+	●+
Turbulation	●+	●+	●+
Cabinet/Inline Spray	●+	●+	●+

### TYPICAL CHEMICAL CHARACTERISTICS

	AquaVantage LTS	AquaVantage 3800 GD	AquaVantage 515 NF
Long Solution Life	●+	●+	●+
pH of Concentrate	7.5	11.7	13.2
pH of Working Solution	6.0-8.0	11.0	12.1
Flash Point	None	None	None
Foaming Tendency: Moderate - High	Low	Low	Low
Cloud Point	>105°F (40.5°C)	>120°F (49°C)	118°F (48°C)
Calculated V.O.C.	0% (0 g/L)	0% (0 g/L)	1.45% (15.83 g/L)
Storage Temperature: 40-110°F (4-43°C)	✓	✓	✓
Shelf Life (Months)	24	24	18

### CLEANING RANGES

	AquaVantage LTS	AquaVantage 3800 GD	AquaVantage 515 NF
Dilution Range	3-15%	3-15%	3-15%
Typical Dilution - Process Dependent	7.5%	5-10%	5-10%
Temperature Range	75-125°F (24-52°C)	130-180°F (54-82°C)	120-170°F (49-77°C)
Typical Temperature	110°F (43°C)	140-150°F (60-66°C)	120-150°F (49-60°C)

## Product Descriptions

### AquaVantage LTS Low Temperature Spray Wash Detergent

- Energy efficient, low-temperature foam control cleanability and broad material compatibility testing. No APE/NPE's, Phosphates or Silicates.
- The product of choice in spray wash cleaning applications where energy savings are critical, heating capacity is limited, or broad foam control is needed.

### AquaVantage 3800 GD High Performance Spray Wash Detergent

- Provides unprecedented performance and scope of application. Delivers exceptional degreasing and soil removal. APE/ NPE-free and Phosphate-free.
- Effective in spray, immersion or turbulated immersion systems.

### AquaVantage 515 NF\*\* Heavy-Duty Spray Wash Detergent

- Low foaming, aggressive cleaning for the most tenacious soils, and broad compatibility with steel, aluminum and most common substrates.
- Use in heavy-duty spray wash cleaning processes.

\*\*Version fulfills requirements for EU/REACH, Canada and other jurisdictions where NPE is restricted.



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