



# Space & Aerospace

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## Spray Wash

	AquaVantage 1696 GD	AquaVantage 1990 GD	AquaVantage 3887 GD
<b>SOILS*</b>			
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)		●+	●+

	AquaVantage 1696 GD	AquaVantage 1990 GD	AquaVantage 3887 GD
<b>SUBSTRATES*</b>			
Steel	●+	●+	●+
Non-Ferrous Metals	Aluminum	●+	●+
	Cadmium Plating	●+	●+
	Chrome Plating	●	●
	Copper (Alloys & Plating)	●+	●
	Magnesium & Magnesium Alloys	●	●
	Titanium & Titanium Plating	●+	●+
	Zinc & Galvanized		
Plastics & Composites	●	●	●
Glass	●+		

	AquaVantage 1696 GD	AquaVantage 1990 GD	AquaVantage 3887 GD
<b>SYSTEM</b>			
Immersion Tanks	●+		●+
Ultrasonic Tanks	●+		●+
Turbulation	●+	●+	●+
Cabinet/Inline Spray	●+	●+	●+

	AquaVantage 1696 GD	AquaVantage 1990 GD	AquaVantage 3887 GD
<b>TYPICAL CHEMICAL CHARACTERISTICS</b>			
Long Solution Life	●+	●+	●+
pH of Concentrate	9.2/8.0	11.5	11.7
pH of Working Solution	8.8/7.8	10.4	11.0
Flash Point	>200°F (93°C)	None	None
Foaming Tendency: Moderate - High	Low	Low	Low
Cloud Point	>105°F (41°C)/ >120°F (49°C)	>115°F (46°C)	>120°F (49°C)
Calculated V.O.C.	3% (32 g/l)	0% (0 g/L)	0% (0 g/L)
Storage Temperature: 40-110°F (4-43°C)	✓	✓	✓
Shelf Life (Months)	24	18	24

	AquaVantage 1696 GD	AquaVantage 1990 GD	AquaVantage 3887 GD
<b>CLEANING RANGES</b>			
Dilution Range	5-20%	5-20%	5-20%
Typical Dilution - Process Dependent	7-10%	5-10%	5-10%
Temperature Range	120-150°F (49-66°C)	120-170°F (49-77°C)	130-180°F (54-82°C)
Typical Temperature	120-150°F (49-66°C)	130-150°F (54-66°C)	140-150°F (60-66°C)

## Product Descriptions

### AquaVantage 1696 GD Neutral pH, Non-Silicated Spray Wash Detergent

- A neutral pH, non-silicated, non-phosphated, APE/NPE-free non-foaming aqueous degreasing chemistry.
- Ideal for cleaning sensitive metals like cadmium and copper/alloys, plastics and elastomers.
- Can be used in immersion, in-line or cabinet spray wash and highly turbulated immersion cleaning systems.

### AquaVantage 1990 GD The Industry Standard Spray Wash Detergent

- Mildly alkaline solution with excellent particulate removal abilities. Free rinsing.
- Use during the manufacturing or rebuild of Aerospace components in inline or cabinet type spray wash cleaning processes.

### AquaVantage 3887 GD High Performance Spray Wash Detergent

- APE/NPE/VOC-free, mildly alkaline detergent provides exceptional cleaning on a variety of soils with long tank life and simplified tank maintenance.
- Excellent for MRO facilities. Highly effective when used in in-line or cabinet spray wash and highly turbulated cleaning systems, as well as immersion. Can also be used in turbulated immersion systems.



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



# Precision Metal

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## Spray Wash

### AquaVantage LTS

### AquaVantage 3800 GD

### AquaVantage 515 NF

## Product Descriptions

### 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)			●

### 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.

### 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	●+		

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

### 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)

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