



# AquaVantage® LTS

## Low-Temperature Spray Wash Detergent

### PRODUCT BENEFITS AND PROPERTIES

AquaVantage LTS is the award winning product of choice in spray wash cleaning applications where energy savings are critical, heating capacity is limited, and powerful cleaning is needed in an ambient temperature range. It has been designed for global regulatory acceptance. Exceptional in its ability to remove a broad range of manufacturing soils and is safe on virtually all metals including steels, aluminum, copper alloys, magnesium, nickel alloys and titanium at reduced temperatures for greater versatility and economy.

#### Benefits

- No REACH SVHC
- RoHS Compliant
- Energy Savings - Reduced Carbon Footprint due to Low Temperature Operation
- Extends Bath Life – Reduces Costs
- Non Foaming at Temperatures above 75°F (24°C)
- Neutral pH - Worker Safety
- Free Rinsing – Permits Improved Adhesion
- Separates Oil Effectively for Improved Oil Removal
- Reduced Cleaning Rework & Rejects
- In-Process Corrosion Control

### 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.

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)	<b>Sample Size:</b>	50 mL
	<b>Titrant:</b>	1.0 N HCl Solution
	<b>Indicator:</b>	Bromophenol Blue (5 Drops)
	<b>Concentration %:</b>	Drops Titrant x 0.414

### MATERIAL COMPATIBILITY

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

**Ferrous Metals:** Carbon Steel • Stainless Steel

**Non-Ferrous Metals & Alloys:** Aluminum • Cadmium Plating • Chrome Plating • Copper (Alloys & Plating) • Nickel, Nickel Alloys & Plating • Titanium & Titanium Alloys

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

### SOILS

AquaVantage LTS removes a wide range of organic and inorganic soils. Some categories of soils that can be removed with AquaVantage LTS include\*:

Coolants • Dirt (Particulate) • Oil (General, Cutting, Hydrocarbon, Lubricants, Self Emulsifying, 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)
Dilution	5-15%, typically used at 7% (Heavy Duty 10%-15%)
Cleaning Temperature Range	75-170°F (24-77°C), typically used at 75-100°F (24-38°C)
Cleaning Duration	1-30 minutes: typical parts are clean in 3-10 minutes
Rinse Temperature	75°F (24°C)

Rinse Water Quality	Recommended conductivity of final rinse water: <ul style="list-style-type: none"><li>• Ultra-Clean Applications: &lt; 50 microsiemens</li><li>• Precision Cleaning: &lt; 500 microsiemens</li><li>• Gross Cleaning: &gt; 500 microsiemens</li></ul>
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To avoid spotting, it is best if the parts remain wet between processing stages.

## TYPICAL CHEMICAL CHARACTERISTICS

Physical Form	Liquid
Color	Slight Yellow
Odor/Fragrance	Mild
Viscosity	Water-thin
Weight	8.59 lbs/gal (1.032 g/ml)
pH of Concentrate	~ 7.8
Flash Point (PMCC)	None to boiling
Foaming Tendency	Very Low

## 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)

**Product #: 431046**