



AquaVantage® HTD

PHOSPHATE-FREE, NON-SILICATED, NEUTRAL PH
IMMERSION & ULTRASONIC DETERGENT

PRODUCT BENEFITS AND PROPERTIES

An unrivaled combination of cleanability, broad material compatibility, and recyclability. Produced in a safe formulation, AquaVantage HTD is the product of choice in most immersion and ultrasonic cleaning applications where phosphates and silicates are undesirable. It has been designed for global regulatory acceptance. Safely cleans sensitive metals. Highly effective degreasing with the advantages of a pH neutral detergent. 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

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:	20 mL
	Titrant:	1.0 N HCl Solution
	Indicator:	Bromophenol Blue - 4 drops
	Concentration %:	Drops Titrant x 0.56

or

	Sample Size:	10 mL
	Titrant:	1.0 N HCl Solution
	Indicator:	Bromophenol Blue - 3 drops
	Concentration %:	Drops Titrant x 1.00

MATERIAL COMPATIBILITY

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

Ferrous Metals: Carbon Steel • Stainless Steel • Steel

Non-Ferrous Metals & Alloys: Aluminum • Brass • Cadmium Plating • Chrome Plating • Copper (Alloys & Plating)** • Ni-Cad Plating • Nickel, Nickel Alloys & Plating • Titanium & Titanium Alloys • Zinc & Galvanized

Plastic & Composites: Acrylics • Epoxy Resin • High Density Polyethylene/HDPE • Nitrile Butadiene Rubber • Polypropylene/PP • Polyvinyl Chloride/PVC • Vinyl

Other: Glass • Painted Surfaces

SOILS

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

Buffing Compounds • Coolants • Dirt (Particulate) • Grease • Oil (General, Cutting, Drawing Compounds, Forming, Hydrocarbon, Lubricants, Self Emulsifying, Water-Soluble)

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

**Minor discoloration may occur under certain conditions.

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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.

TYPICAL CHEMICAL CHARACTERISTICS

Physical Form	Liquid
Color	Blue-Green
Odor/Fragrance	Mild
Viscosity	Water-thin
Weight	8.63 lbs/gal (1.0375 g/ml)
pH of Concentrate	8.3
Flash Point	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)



Scan for product details

Product No. 431043