



# AquaVantage® 1696 GD

## Neutral pH, Non-Silicated Spray Wash Detergent

### PRODUCT BENEFITS AND PROPERTIES

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. Safe on virtually all metals.

#### Benefits

- Extends Bath Life – Creates Labor Savings & Reduces Costs
- Low Foaming at Temperatures Greater than 120°F (49°C)
- Very Free Rinsing – Cleaner Parts & Simplified Cleaning
- Reduced Cleaning Rework & Rejects
- SCAQMD: Certified as a Clean Air Solvent
- Separates oil effectively for easy skimming
- RoHS Compliant
- APE/NPE/Silicate/Phosphate-Free

### 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>	20 mL
	<b>Titrant:</b>	1.0 N HCl Solution
	<b>Indicator:</b>	Bromophenol Blue (4 Drops)
	<b>Concentration %:</b>	Drops Titrant x 0.4

Burette Test Method	<b>Sample Size:</b>	100 mL
	<b>Titrant:</b>	0.5 N HCl Solution
	<b>pH Endpoint:</b>	3.8
	<b>Concentration %:</b>	mL Titrant x 1.23

### INDUSTRY APPROVALS & CONFORMANCE

- **Boeing:** BAC 5763; Emulsion Cleaning
- **Safran:** PR-1500
- **South Coast AQMD:** Certified as a Clean Air Solvent

### TEST COMPLIANCE

- **ASTM F-945**
- **ASTM F-483**
- **ASTM F-485**
- **ASTM F-1110**
- **ASTM F-2111**
- **ARP 1755B CATEGORY 10**

### PERFORMANCE PROPERTIES

AquaVantage 1696 GD is non-corrosive and non-staining to a wide variety of alloys. Some selected categories of materials compatible with AquaVantage 1696 GD include\*:

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

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

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

**Other:** Glass

## SOILS

AquaVantage 1696 GD removes a wide range of organic and inorganic soils. Some categories of soils that can be removed with AquaVantage 1696 GD include\*:

- Coolants
- Dirt (Particulate)
- Grease
- Inks
- Oil (General, Cutting, Drawing Compounds, Fingerprints, Forming, Hydrocarbon, Lubricants, Self Emulsifying, Silicone/Greases, 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) • Circulating Parts Washer • Immersion with Significant Agitation
Dilution	3-15%, typically used at 5%
Cleaning Temperature Range	120-180°F (49-82°C) , typically used at 120-150°F (49-66°C)
Cleaning Duration	1-30 minutes; typically parts are clean in 1-5 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"><li>• Ultra-Clean Applications: &lt; 50 microsiemens</li><li>• Precision Cleaning: &lt; 500 microsiemens</li><li>• Gross Cleaning: &gt; 500 microsiemens</li></ul>
To avoid spotting, it is best if the parts remain wet between processing stages.	

## TYPICAL CHEMICAL CHARACTERISTICS

Physical Form	Liquid
Color	Light Yellow
Fragrance	Mild
Viscosity	Water-thin
Weight	8.60 lbs/gal (1.03 g/ml)
pH of Concentrate	8.0
Flash Point (PMCC)	>212°F (100°C)
Foaming Tendency	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 #: 431039** (Formerly Brulin 1696 B)