



# Specification Conformance & Testing

## AquaVantage 815 GD (301007) (Formerly Formula 815 GD)

The Cleaning Standard in Immersion & Ultrasonic Detergents

### Industry Approvals & Conformance

- **Airbus:** AIPI 09-01-003 Approved Alkaline Cleaner
- **Airbus:** CML, 08AKB1
- **Airbus UK:** ABP 8-1290; Approved Alkaline Cleaner
- **American Airlines:** CPN4106223
- **American Eurocopter:** AEC QA-DCR/10-06/01
- **Bell/Textron:** Material Bulletin 1608J
- **Boeing:** BAC 5749; Alkaline Cleaning\*
- **Boeing:** BAC 5753; Cleaning, Descaling, and Surface Preparation of Titanium and Titanium Alloys
- **Boeing:** BAC 5763; Emulsion Cleaning (PSD 6-62)\*
- **Boeing:** HP 9-25; Degreasing
- **Boeing (McDonnell Douglas):** DPM 6373
- **Boeing (McDonnell Douglas):** DPS 9.341-1
- **Boeing (McDonnell Douglas):** P.S. 12024; Cleaning, Aqueous Immersion Degreasing
- **Bombardier Inc, Canadair:** MPS 180-40; Aqueous Degreasing
- **Bombardier (de Havilland):** PPS 31.04, Issue 21, Aqueous Degreaser
- **Ford:** Tox #150887
- **General Dynamics, Electric Boat Division:** Contract No. N0024-95-C 2103
- **GE Aviation:** S-421
- **GE Aviation:** SPM GEK9250 (CF6, GE90, CF34, CT7) 70-21-22, Method 1
- **GE Aviation:** SPM CFM-TP SP2 (CFM56) 70-21-18
- **GE Aviation:** List of Alloy Compatible Cleaners
- **GM:** FID Number - 261545
- **UTC Aerospace Systems (Rohr):** ML 21304; Brake & Wheel Components
- **UTC Aerospace Systems (Rohr):** RMS 1533
- **UTC Aerospace Systems (Rohr):** RPS 17.23 Rev. AE; Metal Prep for Adhesive Bonding
- **Honeywell (Allied Signal):** EMS 53170
- **Honeywell:** Component Maintenance Manual (Fuel controls)
- **Honeywell:** Standard Practices Manual
- **Hughes:** SCGPS 56039
- **Hughes:** 780202
- **International Aero Engines:** V2500 Overhaul Processes and Consumables Index; CoMat 01-487
- **Lockheed Martin:** EPS G32.016
- **Lockheed Martin:** LMA-PG006, Rev B
- **Lockheed Martin:** STP-57301; Aluminum Cleaning
- **Meggitt Aircraft Braking Systems -** Fulfills Standard Practices Manual AP-842 (32-46-35) when used and maintained according to BHC guidance.

- **National Stock Number:** 07 Size; 6850-01-392-8439
- **National Stock Number:** 55 Size; 6850-01-392-8430
- **Naval Shipyard:** File No. 0006902; Cleaning Respirators and Paint Equipment
- **National Aeronautics and Space Administration:** Procedures for Cleaning of Systems and Equipment for Oxygen Service
- **Northrop:** C-24
- **Pratt & Whitney:** PMC 1437-1; PS 422 Alkali Cleaner, Immersion
- **Pratt & Whitney:** SPMC 184, SPOP 209 Immersion Tank (oper. 1) and Spray-on/Rinse-off Cleaning (oper. 3); SPS 184
- **Rockwell:** LLD565-0013-001
- **Rolls Royce (Allison Engine):** EPS-345
- **Rolls-Royce:** CSS 204 Type A
- **Rolls Royce:** E. A. AX-1800-001
- **Rolls Royce:** OMAT 1/24S
- **Safran:** PR-1500
- **Sikorsky Aircraft (United Technologies):** SS 8423 Rev 5
- **SNECMA:** CFM56 Manual, CP2597
- **SNECMA:** DMP13-300 (Aluminum Alloys)
- **South Coast AQMD:** Certified as a Clean Air Solvent
- **Spirit AeroSystems:** SPS-107630 Emulsion Cleaning and Aqueous Degreasing
- **USDA A1**

### Test Compliance

- **ARP 1755A:** Stock Loss (Cat. 9)
- **ARP 1755B:** Stock Loss (Cat. 10)
- **ASTM F-483:** Total Immersion Corrosion
- **ASTM F-484:** Stress Cracking of Acrylic Plastics
- **ASTM F-485:** Unpainted Aircraft Surfaces
- **ASTM F-502:** Painted Aircraft Surfaces
- **ASTM F-519:** Hydrogen Embrittlement (Type 1c)
- **ASTM F-945:** Titanium Stress Corrosion (AMS 4916 & 4911 Alloys)
- **ASTM F-1110:** Sandwich Corrosion
- **ASTM F-1111:** Low-Embrittling Cadmium Plate
- **Boeing:** D6-17487 Rev. K; Exterior Cleaner
- **Boeing (McDonnell Douglas):** CSD 1; General Purpose Cleaner
- **Contains No Cyanides or Sulfides**
- **GE Aviation:** CT-882; Solvent Replacement
- **PWA 36604 Rev. D:** Determination of the Effect of Chemical Cleaners on Non-metallic Alloys (O-Rings)
- **PWA 36604 Rev. D:** Hot Corrosion Testing

## AquaVantage 815 GD-NF (301017) (Formerly Formula 815GD-NF)

The Cleaning Standard in APE/NPE-Free Immersion & Ultrasonic Detergents

### Industry Approvals & Conformance

- **Airbus:** CML, 08AKB1
- **BAE Systems:** Process Specification R10-6024
- **Boeing:** BAC 5749; Emulsion Cleaning (PSD 6-153)
- **Boeing:** HP 9-25; Degreasing
- **Boeing:** BAC 5763; Alkaline Cleaning (PSD 6-59)
- **Bombardier (de Havilland):** PPS 31.04, Issue 21, Aqueous Degreaser
- **UTC Aerospace Systems (Rohr):** GSIL 2006-01
- **National Stock Number:** 05 Size; 6850-01-606-8428
- **National Stock Number:** 55 Size; 6850-01-606-8434
- **Meggitt Aircraft Braking Systems -** Fulfills Standard Practices Manual AP-842 (32-46-35) when used and maintained according to BHC guidance.

- **Messier-Dowty:** PCS-2621 (Pending)
- **Rolls-Royce:** OMAT 1/24S
- **Safran:** PR-1500
- **Safran Group:** CMM 24-30-09
- **SNECMA:** DMP13-300 (Aluminum Alloys)
- **USDA A1**

### Test Compliance

- **ASTM F-1110:** Sandwich Corrosion
- **ASTM F-945:** Titanium Stress Corrosion (AMS 4916 & 4911 Alloys)

\* including BMS8-276 substrate

## AquaVantage 1400 GD (431037)

Advanced Technology Immersion & Ultrasonic Detergent

### Industry Approvals & Conformance

- **Cessna Aircraft:** CSFS036; Aqueous Degreasing for Aircraft Parts
- **USDA A1**

### Test Compliance

- **ASTM F-519:** Hydrogen Embrittlement (Type 1a)
- **ASTM F-945:** Titanium Stress Corrosion (AMS 4911)

## AquaVantage 1990 GD (301008) (Formerly Brulin 1990 GD)

The Industry Standard Spray Wash Detergent

### Industry Approvals & Conformance

- **Airbus:** AIPI 09-01-003 Approved Alkaline Cleaner
- **Airbus UK:** ABP 8-1290; Approved Alkaline Cleaner
- **Boeing:** BAC 5763; Emulsion Cleaning
- **Boeing:** HP 9-25; Degreasing
- **General Dynamics, Electric Boat Division:** Contract No. N0024-95-C-2103
- **GE Aviation:** S-421
- **GE Aviation:** List of Alloy Compatible Cleaners
- **GM:** FID Number - 330546
- **UTC Aerospace Systems (Rohr):** ML21345; Cleaning Aluminum and Steel Brake/Wheel Parts
- **UTC Aerospace Systems (Hamilton Sundstrand):** Soak Cleaning of Heat Exchangers
- **Honeywell (Allied Signal):** EMS 53170; Steel Brake/Wheel Parts
- **Honeywell:** Standard Practices Manual
- **Lockheed Martin:** EPS G32.0160
- **Lockheed Martin:** LMA-PG006, Rev B
- **Lucas Aerospace:** DC Starter/Gen
- **Meggitt Aircraft Braking Systems** - Fulfills Standard Practices Manual AP-842 (32-46-35) when used and maintained according to BHC guidance.
- **National Aeronautics and Space Administration:** Procedures for Cleaning of Systems and Equipment for Oxygen Service
- **National Stock Number:** 05 Size; 6850-01-428-8842
- **National Stock Number:** 55 Size; 6850-01-435-6459

- **Philips Electronics:** 12NC Number: 1322-529-81201
- **Rolls-Royce:** CSS204 Type A
- **Rolls-Royce:** OMAT 1/24 AG
- **SAFRAN:** PR-1500
- **South Coast AQMD:** Certified as a Clean Air Solvent
- **Teledyne Ryan Aeronautical:** RACO 2833, Alkaline Degreasing Fluid, Spray
- **United Airlines:** UMS CLE3005-3-2-Cleaner, High Temp/High Press. A/C Parts Washer
- **USDA A1**

### Test Compliance

- **ARP 1755A:** Stock Loss (Cat. 9)
- **ARP 1755B:** Stock Loss (Cat. 10)
- **ASTM F-483:** Total Immersion Corrosion
- **ASTM F-484:** Stress Cracking of Acrylic Plastics
- **ASTM F-485:** Unpainted Aircraft Surfaces
- **ASTM F-502:** Painted Aircraft Surfaces
- **ASTM F-519:** Hydrogen Embrittlement (Type 1c)
- **ASTM F-945:** Titanium Stress Corrosion (AMS 4916 & 4911 Alloys)
- **ASTM F-1110:** Sandwich Corrosion
- **ASTM F-1111:** Low-Embrittling Cadmium Plate
- **Boeing:** D6-17487 Rev. K; Exterior Cleaner
- **Boeing (McDonnell Douglas):** CSD 1; General Purpose Cleaner
- **Contains No Cyanides or Sulfides**
- **GE Aviation:** CT-882; Solvent Replacement
- **Sandwich Corrosion Test**

## AquaVantage 3887 GD (431042)

High Performance Spray Wash Detergent

### Industry Approvals & Conformance

- **American Eurocopter:** AEC QA-DCR/10-06/01
- **Boeing:** BAC 5749; Alkaline Cleaning (PSD 6-153)\*
- **Boeing:** BAC 5763; Emulsion Cleaning (PSD 6-62)\*
- **Rolls-Royce:** OMAT 1/24AM
- **Rolls-Royce:** CSS204 Type A
- **Pratt & Whitney:** SPMC 233, SPOP 1 (Degreasing the Exterior of the Engine); SPOP 209 (Immersion Tank Method; Aqueous Spray or Wipe with Rinsing Method; Spray Wash Machine); SPS 233
- **Pratt & Whitney:** PMC 1468; PS 422 Alkali Cleaner, Immersion; PS 438 Alkali Cleaner (Spray Wash)
- **Pratt & Whitney:** POP 581 Alkali Cleaning in Cabinet-Type Automatic Spray Wash Equipment
- **International Aero Engines (CoMat pending)**
- **GE Aviation:** List of Alloy Compatible Cleaners
- **Honeywell Aerospace:** Acceptable per C5102 Rev. B

### Test Compliance

- **ARP 1755B:** Stock Loss (Cat. 10)
- **ASTM F-519:** Hydrogen Embrittlement (Type 1a)
- **ASTM F-945:** Titanium Stress Corrosion (AMS 4916 & 4911 Alloys)
- **GE Aviation:** ASTM F-2111; Intergranular Attack
- **GE Aviation:** Elemental Analysis Group I and Group III
- **GE Aviation:** Hot Corrosion
- **GE Aviation:** Appendix F, 3.1.1, Cyanide and Sulfide Content
- **PWA 36604 Rev. D:** Compatibility with PWA 407 Rubber
- **PWA 36604 Rev. D:** Compatibility with Non-Metallic Materials
- **PWA 36604 Rev. D:** Hot Corrosion
- **PWA 36604, MCL E-205 Type II:** Titanium Stress Corrosion
- **ASTM E1447:** Hydrogen pickup
- **Sandwich Corrosion:** per Honeywell EMS 53170 Rev. C
- **Sandwich Corrosion:** per BAC 5763, Rev H

## AquaVantage 3843 GD (431045)

High Performance, Phosphate-Free Immersion & Ultrasonic Detergent

### Industry Approvals & Conformance

- **Boeing:** BAC 5749
- **Boeing:** BAC5763
- **Lockheed Martin:** STM32-301 Type I Class 2A (low temp, liquid, immersion)



**Specification Conformance & Testing**

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## AquaVantage 1696 GD (431039) (Formerly Brulin 1696 B)

Neutral pH, Non-Silicated Spray Wash Detergent

### Industry Approvals & Conformance

- **Boeing:** BAC 5763; Emulsion Cleaning (PSD 6-62)
- **South Coast AQMD:** Certified as a Clean Air Solvent

### Test Compliance

- **ASTM F-945:** Titanium Stress Corrosion (AMS 4916 & 4911 Alloys)

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## SolVantage VaporSolv (304035)

Vapor Degreasing Solvent

### Industry Approvals & Conformance

- **Pratt & Whitney PWA 36604 Rev E Hot Corrosion**
- **GE Aircraft Engine Hot Corrosion**
- **ARP 1755:** B Category 12, Stock Loss
- **ASTM F211:** Intergranular Attack or End Grain Pitting

- **ASTM F519:** Hydrogen Embrittlement
- **ASTM 954:** AMS 4911 and 4916, Stress Corrosion of Titanium Alloys
- **Elemental Analysis**
- **Lockheed Martin:** EMAP G41.149

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## SolVantage MP 1793 (304017 & 304030) (Formerly Brulin MP 1793)

RTU Multi-Purpose Wipe Solvent

### Industry Approvals & Conformance

- **Approved for use with Dow Corning Silicone Building Sealants per ASTM C-794:** Peel Adhesion Test
- **Approved for use with GE Structural Adhesives per ASTM C-794:** Peel Adhesion Test
- **Boeing:** Number 84086
- **Boeing (McDonnell Douglas):** DPM 6380-1; MCS 6000, Type IB, Type III B, Type V, Type VI
- **National Stock Number:** QT Size; 6850-01-466-6164
- **National Stock Number:** 05 Size; 6850-01-466-6172
- **National Stock Number:** 55 Size; 6850-01-466-6175

- **National Stock Number:** 6/100 Wipe Size; 6850-01-466-6157
- **Sikorsky Aircraft (United Technologies):** QPL SS9170/204 rev1
- **USDA K1**

### Test Compliance

- **ARP 1755B:** Stock Loss Tests (Cat 9)
- **ASTM C-794:** Peel Adhesion Test
- **ASTM D-877:** Dielectric Breakdown (to 30,000 volts)
- **ASTM F-519:** Hydrogen Embrittlement (Type 1c)
- **ASTM F-945:** Titanium Stress Corrosion

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## SolVantage SD 1291 (304012) (Formerly Brulin SD 1291)

RTU Wipe Solvent

### Industry Approvals & Conformance

- **Ford:** Tox #138532
- **GM:** FID Number -261497
- **National Stock Number:** 05 Size; 6850-01-423-1072
- **Navy Specifications - Removal of Grease and Adhesives to Replace MEK Publication Manual**
  - 110-300 Air Frames
  - 150-300 Power Plants
- **Sikorsky Aircraft (United Technologies):** QPL SS9170/204 rev1

### Test Compliance

- **ARP 1755A:** Stock Loss (Cat. 9)
- **ASTM D-471:** Effect on Rubber Property
- **ASTM D-485:** Unpainted Aircraft Surfaces
- **ASTM D-5229:** Moisture Absorption
- **ASTM F-519:** Hydrogen Embrittlement (Type 1c)
- **ASTM F-945:** Titanium Stress Corrosion (AMS 4911 Alloy)

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## Safety Strip 61 Special (331027)

Military Specification, Two Phase Stripper

### Industry Approvals & Conformance

- **MIL-PRF-83936C**

### Test Compliance

- **ASTM F-519:** Hydrogen Embrittlement (Type 1a)
- **Biodegradability per MIL-PRF-83936C**
- **Corrosion Rate per MIL-PRF-83936C**
- **Flammability per MIL-PRF-83936C**
- **Paint Removal per MIL-PRF-83936C**
- **Viscosity per MIL-PRF-83936C**
- **Shelf-life per MIL-PRF-83936C**

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## Formula 715N (303051)

Heavy-Duty, Exterior Aircraft Cleaner

### Industry Approvals & Conformance

- **MIL-C-43616B Class I**
- **Rolls Royce (Allison Engine):** 250-C20 Operations and Maintenance Manual; Exterior Skin and Gas Pathway Cleaner for Removal of Carbon Deposits



## Airshow W (391002)

Aerospace Specification Exterior Plane Wash

### Industry Approvals & Conformance

- **Boeing:** D6-37547, Heavy Duty Cleaner

### Test Compliance

- **Boeing (McDonnell Douglas):** CSD 1
- **Cadmium Removal Test**
- **Effects on Painted Surfaces**
- **Hydrogen Embrittlement Test**
- **Immersion Corrosion Test**
- **Residue Test**
- **Sandwich Corrosion Test**
- **Stress Cracking of Acrylic Base Plastics**

## Formula 512M (303004)

Heavy-Duty Cleaner Degreaser

### Industry Approvals & Conformance

- **Ford:** Tox #029722
- **MIL-C-43616B, Class I**
- **Rolls Royce (Allison Engine):** 250-C20 Operations and Maintenance Manual; Exterior Skin and Gas Pathway Cleaner for Removal of Carbon Deposits

## BioSolv Dewaxer (431003)

Bio-Based Solvent

### Industry Approvals & Conformance

- **ASTM F 519 Type 1c Hydrogen Embrittlement**
- **ASTM F211 IGA/EGP**
- **ASTM F1110 Sandwich Corrosion**
- **ASTM F 945 Titanium Stress Corrosion**
- **ARP 1755 Stock Loss Category 12**
- **PWA 36604 Hot Corrosion**
- **GE Heat Corrosion**

## Nut Lube 10B (FD) (404060)

Industry Approved Lubricant & Corrosion Inhibitor

### Industry Approvals & Conformance

- **IMDS ID:** 56896425

## 300/QR (303002)

Product of Choice for Heavy-Duty Cleaning Where Straight Solvents Are Not Tolerated

### Industry Approvals & Conformance

- **Lucas Aerospace (Goodrich):** 23080-Series Overhaul Manual

## National Stock Numbers for additional products

<b>Aqua-Safe</b> (700040) General-Purpose, Phosphate-Free Degreaser	<ul style="list-style-type: none"><li>• <b>National Stock Number:</b> 07 Size; 6850-01-394-2616</li><li>• <b>National Stock Number:</b> 55 Size; 6850-01-394-0171</li></ul>
<b>AquaVantage 63-G</b> (432001) (Formerly Brulin 63-G) Heavy-Duty Spray Wash Detergent	<ul style="list-style-type: none"><li>• <b>National Stock Number:</b> 05 Size; 6850-01-394-0166</li><li>• <b>National Stock Number:</b> 55 Size; 6850-01-394-0169</li></ul>
<b>Maxima 256</b> (161042) Disinfectant Cleaner	<ul style="list-style-type: none"><li>• <b>National Stock Number:</b> QT Size; 6840-01-513-1201</li><li>• <b>National Stock Number:</b> 04 Size; 6840-01-513-1207</li><li>• <b>National Stock Number:</b> 55 Size; 6840-01-513-1197</li></ul>
<b>Nature-Sol 100</b> (700010) Natural Solvent Degreaser	<ul style="list-style-type: none"><li>• <b>National Stock Number:</b> 05 Size; 6850-01-423-1075</li><li>• <b>National Stock Number:</b> 55 Size; 6850-01-394-2617</li></ul>

