



## Water Works™ Heavy Duty Degreaser Concentrate Certified Compliance List \*



| Test Compliance  | Description   | Dilution            | Materials Tested  |
|--|---|---------------------|---|
| Boeing D6-17487 Rev. P                                       | Exterior and General Cleaners and Liquid Waxes, Polishes and Polishing Compounds                                    | Full Strength & 1:9 | Sandwich Corrosion Test<br>Acrylic Cracking Test<br>Paint Softening Test<br>Hydrogen Embrittlement test   |
| Douglas Aircraft Company Customer Service Document CSD No. 1 | Materials and Procedures for General Exterior Cleaning of Painted and Unpainted Surfaces (General Purpose Cleaner)  | Full Strength & 1:9 | Effect on Painted Surfaces<br>Residue<br>Sandwich Corrosion<br>Stress Cracking Test on Acrylic Plastics<br>Immersion Corrosion, Aluminum<br>Cadmium Removal<br>Hydrogen Embrittlement   |
| AMS 1526C  | Cleaner for Exterior Surfaces Water-Miscible, Pressure-Spraying Type  | Full Strength & 1:9 | Sandwich Corrosion<br>Total Immersion Corrosion<br>Low-Embrittling Cadmium Plate<br>Hydrogen Embrittlement<br>Flash Point<br>Effect on Transparent Acrylic Plastics<br>Effect on Painted Surfaces<br>Effect on Unpainted Surfaces |
| ARP 1755B  | Effect of Cleaning Agents on Aircraft Engine Materials. Stock Loss Test Method. Category 10: Aqueous Cleaner        | 1:1                 | As specified in standard method.  |
| ARP 1755B  | Effect of Cleaning Agents on Aircraft Engine Materials. Stock Loss Test Method.                                     | 1:1                 | AMS 4434 (AZ92 Magnesium).  |
| ASTM F 483   | Standard Test Method for Total Immersion Corrosion Test for Aircraft Maintenance Chemicals                          | 2:1                 | AMS 5046 (1020 Steel)<br>AMS 5517 (301 Stainless Steel)   |
| ASTM F 483   | Standard Test Method for Total Immersion Corrosion Test for Aircraft Maintenance Chemicals                          | Full Strength       | AMS 5046 (1020 Steel)<br>AMS 5517 (301 Stainless Steel)   |
| ASTM F 519   | Standard Test Method for Mechanical Hydrogen Embrittlement Evaluation of Plating Processes and Service Environments | 1:9                 | Type 1a1, low-embrittling cadmium plated in accordance with MIL-STD-870 Type I Class 1.   |
| ASTM F 519   | Standard Test Method for Mechanical Hydrogen Embrittlement Evaluation of Plating Processes and Service Environments | 1:9                 | Type 1c, low-embrittling cadmium plated in accordance with MIL-STD-870 Type I Class 1.  |
| Pratt & Whitney PWA 36604 Rev. D                             | Compatibility with PWA 407 Rubber   | 1:1                 | ASTM D 816 Method B, Type 1.  |
| Pratt & Whitney PWA 36604 Rev. D                             | Stress Corrosion  | 1:9                 | ASTM F 945, Method A using AMS 4916.  |
| Pratt & Whitney PWA 36604 Rev. D                             | Hot Corrosion   | 1:1                 | AMS 5544 (Waspaloy)<br>AMS 5536 (Hastelloy X)<br>AMS 5608 (Haynes 188)<br>AMS 5508 (Greek Ascoloy)<br>AMS 6359 (4340 Steel)<br>AMS 4037 (2024-T3 Aluminum)<br>AMS 4375 (AZ31B-0 Magnesium)  |
| Pratt & Whitney PWA 36604 Rev. D                             | Compatibility with Non-Metallic Materials   | Full Strength       | AMS 7267 Silicon Rubber<br>AMS 7271 Butadiene-Acrylonitrile Rubber<br>AMS 7273 Fluorosilicone Rubber<br>AMS 7276 Fluorocarbon Rubber<br>PWA 407 Rubber  |
| Pratt & Whitney PWA 36604 Rev. D                             | Stress Corrosion  | 1:1                 | ASTM F 945, Method A using AMS 4911.  |



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| Industry Approval   | Description   | Dilution | Test Method  | Materials Tested  |
|---|---|----------|--|---|
| Honeywell (Allied Signal)<br>EMS 53170  | Material Requirements for<br>Aqueous and Semi-aqueous Degreasing        | 1:1      | Appendix A. Etch Rate Test<br>Method   | Bare Aluminum (2024-T6)<br>Magnesium (AZ31)<br>Bare low alloy steel (4130)<br>Cadmium Plated steel (QQ-P-416 Type II)<br>Titanium 6-4,<br>Nickel based alloy (INCO625)<br>Ferrous alloy A286,<br>Stainless steel alloy (410 SS) |
|   |   | 2:1      | Appendix B. Sandwich<br>Corrosion Test Method<br>(In accordance with ASTM F<br>1110)                   | 7075-T6,<br>2024-T3,<br>7075-76 (spec: MIL-A-8625 Type II, Class 1)<br>2424-T3 (spec: MIL-A-8625 Type II, Class 1)  |
|   |   | 1:1      | Appendix C. Intergranular<br>Attack Test Method  | Bare Aluminum (2024-T6)<br>Magnesium (AZ31)<br>Bare low alloy steel (4130)<br>Cadmium Plated steel (QQ-P-416 Type II)<br>Titanium 6-4,<br>Nickel based alloy (INCO625)<br>Ferrous alloy A286,<br>Stainless steel alloy (410 SS) |
|   |   | 1:1      | Appendix F. Hydrogen<br>Embrittlement Test Method (In<br>accordance with ASTM F519).                   | Unplated, notched tensile bars made from AISI<br>4340 in accordance with ASTM F 519, Type 1a.   |
|   |   | 1:1      | Appendix G. Stress Corrosion<br>and Hydrogen Pickup Test<br>Method (In accordance with<br>ASTM F 945). | AMS 4911 AMS 4916   |
| Honeywell<br>Standard Practices<br>Manual                                     | Approved Engine Cleaner SPM 70-00-02,<br>for T53 Engine Component Parts |          |  |   |
| United Airlines<br>Administrative / Technical<br>Manual AC Appearance-<br>UAL | Aircraft Exterior Wash Program  |          |  |   |

**Conforms to Nuclear Power Parts Cleaning Compatibility Test :**

Sulfur wt% <0.005    Zinc PPM <10  
Antimony PPM <5    Bismuth PPM <16  
Lead PPM <5    Tin PPM <5  
Cadmium PPM <0.2

**South Coast Air Quality Management District:    Certified as a Clean Air Solvent**

Compliant with SCAQMD 5 gm / liter when in  
dilutions of 2:1 or higher



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## Certifications

## Description

### Green Seal

### GS-34: Environmental Standard for Cleaning and Degreasing Agents.

The performance requirements for Green Seal GS 34 have been met. The process soil was successfully cleaned at a 33% dilution using immersion cleaning, the maintenance soil cleaning when using ultrasonic energy at a 12.5% dilution of the product and the oil separation was successful when using the 12.5% dilution at room temperature.

| Test Compliance | Description  | Dilution | Materials Tested           |
|-----------------|--|----------|----------------------------|
| ASTM G-122      | Standard Test Method for Evaluating the Effectiveness of Cleaning Agents | 33%      | 304 Stainless Steel Coupon |
| Mil-PRF87937C   | Cleaning Compounds, Aerospace Equipment                                  | 33%      | 304 Stainless Steel Coupon |
| Mil-C-29602     | Cleaning Compounds, for Parts Washers and Spray Cabinets                 | 33%      | 304 Stainless Steel Coupon |

Evaluated with the Irritation Assay System in order to predict its potential for ocular and dermal irritation. The ocular results indicated that the sample of Heavy Duty Degreaser is a mild ocular irritant. The dermal results demonstrated that the sample is a dermal non-irritant.

Aquatic Biodegradability in accordance with ISO 9439.

*\* "This product meets Green Seal™ Standard GS-34 based on effective performance and protective limits on: VOCs, ozone depleting chemicals, and human & environmental toxicity. GreenSeal.org."*

### NSF

**Category Code C1 – C Compound for use on all surfaces in inedible product areas, non- processing areas, and/or exterior areas. Registration Number 141454**

