



Technical Data Sheet

AXAREL™ 1000 Solvent Cleaner

Product Description

AXAREL 1000 Solvent Cleaner is an approved MIL-PRF-680 Type I cleaner suitable for the replacement of isopropyl alcohol (IPA), acetone, methyl ethyl ketone (MEK), mineral spirits, PD-680 solvents and other low flash point, flammable solvents. The low vapor pressure of this cleaner can result in a significant reduction in VOC emissions. Designed for hand wiping, immersion applications and use in airless vacuum hydrocarbon equipment to leave substrates with very low surface residues while effectively removing a wide range of soils such as greases, mineral oils, lubricants, coolants, synthetics, and particulate matter. AXAREL 1000 is compatible with many polymeric substrates, elastomers and is safe for use with ferrous and non-ferrous alloys.

Features and Benefits

- Approved MIL-PRF-680 Type I Solvent
- Low Toxicity
- Fast Dry Time
- Good Solvency
- P-D-680 Replacement
- Non-Corrosive
- Low Surface Residues

Properties

Odor	Essentially Odorless
Flash Point	127 °F (53 °C)
Specific Gravity (25 °C)	0.76
Viscosity (25 °C)	1.36 cps
Distillation Range	354-369 °F (179-187 °C)
Vapor Pressure (20 °C)	0.78 mmHg
Kauri-Butanol (KB) Value	29
Evaporation Rate (n-BuAc=1)	0.1
Surface Tension (25 °C)	24.1 dynes/cm
Non-Volatile Residue	60 ppm

Soils Removed

- Mineral Oils
- Water-Soluble Oils
- Synthetic Oils
- Coolants
- Rust Inhibitors
- Greases
- Lubricating Oils
- Fingerprint Oils
- Particulate Matter
- Dust

Equipment

Suitable for use in a variety of commercially available cleaning equipment including immersion tanks and airless vacuum hydrocarbon systems.



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Process

Manual Cleaning:

Apply at full concentration to the desired substrate by brush, pad or cloth.

Immersion Cleaning:

Add at full concentration to the wash tank reservoir. The use of ultrasonics or heat is not recommended.

Vacuum Equipment

Add at full concentration to the wash chamber.

Environmental/Regulatory

Ozone Depletion Potential (ODP)	Zero
Global Warming Potential (GWP)	Low
Hazardous Air Pollutant (HAP)	No
Volatile Organic Compound (VOC)	760 g/L
Superfund Amendments and Reauthorization Act (SARA)	Not regulated
National Emission Standards for Hazardous Air Pollutants (NESHAPs)	Not Regulated
Resource Conservation and Recovery Act (RCRA)	Regulated

Disposal/Safety

Disposal

Vantage recommends contacting your current or local environmental service company for proper disposal.

Safety

Please see Safety Data Sheet for further information.

Approvals and Testing

Approvals

- **Airbus**
 - A330 Maintenance Manual Item 11-002 Dry Cleaning Solvent (ref. MIL-PRF-680)
 - Consumable Materials List (CML) (ref. MIL-PRF-680)
- **Boeing**
 - BAC 5750 Solvent Cleaning (as optional to P-D-680 specification) (PSD 6-88)
- **Honeywell Aerospace** per MIL-PRF-680 Qualifications
- **Lockheed Martin** STP57-201, Rev. H
- **MIL-PRF-680** Type I Degreasing Solvent (QPL) (DS-0020)
- **Pratt & Whitney** PMC 9045, POP 350 Cleaning/Degreasing of Metallic Engine Hardware
- **Rolls-Royce**
 - CSS276
 - OMat 102
- **United Airlines** SOL3001-1



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Testing

ASTM F-1110, F-483, F-945, D-130, D-1296, D-1353

NSN#

6850-01-474-2302 (1 gal), 6850-01-474-2309 (5 gal), 6850-01-474-2313 (55 gal), 6850-01-163-1888

Packaging

Available in 31 lb (14 kg) pails and 348 lb (158 kg) drums.

Shelf Life

36 months when stored in original, sealed container above 50 °F (10 °C).



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