



# AXAREL<sup>®</sup> 1000

## Technical Data Sheet

AXAREL 1000 is an approved MIL-PRF-680B Type I solvent cleaner designed for hand-wiping and immersion applications. It is also suitable for use in airless vacuum hydrocarbon equipment.

AXAREL 1000 is selected when a low odor solvent with fast drying characteristics is required.

AXAREL 1000 is a high performance solvent cleaner, offering broad-based solvency and low toxicity.

AXAREL 1000 is formulated to effectively remove a wide range of soils such as greases, mineral oils, lubricants, coolants, synthetics, and particulate matter.

AXAREL 1000 is safe for use with ferrous and non-ferrous alloys such as aluminum, copper and copper alloys, magnesium, nickel, steel, stainless steel, titanium and zinc. It is also compatible with many polymeric substrates and elastomers.

AXAREL 1000 may be a suitable replacement for isopropyl alcohol (IPA), acetone, methyl ethyl ketone (MEK) and other low flash point, flammable solvents. It may also be an effective alternative to halogenated solvents and caustic cleaners.

AXAREL 1000 is a high-purity solvent, designed to leave substrates with very low surface residue and low non-volatile residue (NVR).

AXAREL 1000 is supported by a global network of technical representatives, capable of solving the industries most difficult cleaning applications.

AXAREL is a registered trademark of Petroferm Inc.

### FEATURES & BENEFITS

- MIL-PRF-680B Type I Solvent
- Low Odor
- Fast Dry Time
- Low Toxicity
- Good Solvency
- P-D-680 Replacement
- Corrosion Inhibition
- Non-Corrosive
- Low Surface Residue/NVR
- Low Vapor Pressure

### PROPERTIES

Appearance.....	Clear liquid
Odor.....	Essentially Odorless
Flash Point.....	127°F (53°C)
Specific Gravity (25°C).....	0.76
Distillation Range.....	354-369°F (179-187°C)
Viscosity (25°C).....	1.36 cps
Vapor Pressure (20°C).....	0.78 mm Hg
Kauri-Butanol (KB) Value.....	29
Refractive Index (20°C).....	1.42
Evaporation Rate (n-BuAc=1).....	0.1
Surface Tension (25°C).....	24.1 dynes/cm
Non-volatile Residue (100mL).....	6 mg

### PROCESS

**Manual Cleaning:** Apply AXAREL 1000 at full concentration to the desired substrate by brush, pad or cloth.

**Immersion Cleaning:** Add AXAREL 1000 at full concentration to the wash tank reservoir. The use of ultrasonics or heat is not recommended.

**Vacuum Equipment:** Add AXAREL 1000 at full concentration to the wash chamber.

### SOILS REMOVED

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

# AXAREL 1000

## EQUIPMENT

- AXAREL 1000 is suitable for use in a variety of commercially available cleaning equipment including immersion/soak tanks, vertically oscillating systems and airless vacuum hydrocarbon systems.
- Companies requiring new equipment may contact Petroferm for supplier recommendations.

## APPROVALS & TESTING

### Approvals

MIL-PRF-680B Type I Degreasing Solvent (QPL) (DS-0020)  
NSN (6850-01-474-2309/2313)

### Testing

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

## SHELF LIFE

The shelf life for this product is thirty-six (36) months when it is stored in its original, sealed container at room temperature.

However, the product should be inspected after thirty-six (36) months from the date of manufacture prior to customer use.

Typical property data is not intended for specification purposes. Petroferm, its sales agents and distributors make no warranty of merchantability of the product or of product fitness for any particular purpose. This product and all information supplied are used at the purchaser's own risk. The purchaser assumes all risk of use or handling of the product, whether in accordance with directions or not.

## ENVIRONMENTAL/REGULATORY

Ozone Depletion Potential (ODP).....	Zero
Global Warming Potential (GWP).....	Low
Significant New Alternatives Program (SNAP).....	Approved
Hazardous Air Pollutant (HAP).....	No
National Emission Standards for Hazardous Air Pollutants (NESHAPs).....	Not regulated
Superfund Amendments and Reauthorization Act (SARA).....	Not regulated
Resource Conservation and Recovery Act (RCRA).....	Regulated

## DISPOSAL/SAFETY

**Disposal:** Petroferm recommends contacting your current or local environmental service company for disposal of this product.

**Safety:** Please see Material Safety Data Sheet for further information.

**Storage:** AXAREL 1000 should be stored in the original container, preferably above 50°F (10°C), in a ventilated, fire-resistant building.

**Packaging:** AXAREL 1000 is available in 31 lb (14 kg) pails and 348 lb (158 kg) drums.



## Petroferm

*Advanced Products for Advanced Cleaning*

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