Petroferm

AXAREL® 4000

Technical Data Sheet

AXAREL 4000 is an approved MIL-PRF-680B Type IV solvent cleaner designed for manual cleaning and immersion applications.

AXAREL 4000 is a high purity blended cleaner designed to provide the highest soil removal capability of all four types of MIL-PRF-680B solvents.

AXAREL 4000 is selected when a powerful, non-hazardous solvent with exceptional drying characteristics is required.

AXAREL 4000 is formulated to effectively remove hard-to-clean soils such as heavy greases, mineral oils, lubricants, coolants, synthetics, and particulate matter.

AXAREL 4000 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 4000 is a direct replacement for acetone, isopropyl alcohol (IPA), methyl ethyl ketone (MEK), toluene and other low-flash point, flammable materials. It may also be an effective alternative to halogenated solvents and caustic cleaners.

AXAREL 4000 is a high-purity solvent, designed to leave substrates with very low surface residue and low non-volatile residue (NVR).

AXAREL 4000 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 IV Solvent
- Mild Citrus Odor
- Exceptional Dry Time
- Low Toxicity
- Good Solvency
- P-D-680 Replacement
- Corrosion Inhibition
- Non-Corrosive
- Non-Hazardous
- Low Surface Residue/NVR

PROPERTIES

Appearance	Clear liquid
Odor	Mild Citrus
Flash Point	147°F (64°C)
Specific Gravity (25°C)	0.77
Distillation Range	374-401°F (190-205°C)
Viscosity (25°C)	1.54 cps
Vapor Pressure (20°C)	0.8 mm Hg
Kauri-Butanol (KB) Value	30
Non-volatile Residue (100mL)	6 mg

PROCESS

Manual Cleaning: Apply AXAREL 4000 at full concentration to the desired substrate by brush, pad or cloth.

Immersion Cleaning: Add AXAREL 4000 at full concentration to the wash tank reservoir. The use of ultrasonics or heat is not recommended.

SOILS REMOVED

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

AXAREL 4000

EQUIPMENT

- AXAREL 4000 is suitable for use in a variety of commercially available cleaning equipment including immersion/soak tanks, low pressure spray-under-immersion systems and vertically oscillating systems.
- Companies requiring new equipment may contact Petroferm for supplier recommendations.

APPROVALS & TESTING

Approvals
MIL-PRF-680B Type IV Degreasing Solvent (QPL) (DS-0023)
NSN 6850-01-472-2717 (5 Gallon Pail)
NSN 6850-01-472-2719 (55 Gallon Drum)

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.

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).....Not 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 4000 should be stored in the original container, preferably above 50ºF (10ºC), in a ventilated, fire-resistant building.

Packaging: AXAREL 4000 is available in 32 lb (15 kg) pails and 352 lb (159 kg) drums.

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.

Petroferm
Advanced Products for Advanced Cleaning

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