



Product Name: Refrigeration Oil

Application: Refrigeration Compressors

ISO viscosity grade: 46, 68

Quality: Mineral

Recommended for: Commercial and industrial refrigeration systems, air conditioning compressors, and cooling units operating under high-pressure and extreme temperature conditions.

Product Overview

Refrigeration Oil is a high-performance lubricant specifically designed for refrigeration and air conditioning compressors operating under extreme conditions. It offers excellent chemical stability, superior lubricity, and outstanding thermal performance, ensuring reliable operation and extended equipment life. This oil is formulated with refined base oils and advanced additive technology to provide exceptional wear protection, minimize carbon and sludge formation, and resist moisture contamination.

Application

Refrigeration Oil ISO 46 & 68 are recommended for use in:

- Reciprocating, rotary, and screw-type refrigeration compressors.
- Industrial and commercial refrigeration systems.
- Air conditioning systems using ammonia (NH₃), CFCs, HCFCs, and some HFC refrigerants.
- Low-temperature applications requiring high fluidity and lubrication.

Note: Always verify compatibility with the specific refrigerant and manufacturer recommendations before use

Performance Benefits

- **Superior Lubrication:** Ensures smooth operation and reduces friction in compressor components.
- **Thermal & Oxidation Stability:** Prevents sludge and deposit formation for longer oil life.
- **Excellent Chemical Resistance:** Compatible with most refrigerants, including ammonia (NH₃), CFCs, HCFCs, and HFCs.
- **Low Pour Point:** Enables smooth performance in low-temperature environments.
- **Anti-Foaming & Anti-Wear Properties:** Enhances compressor efficiency and protects against metal wear.
- **Minimal Oil Carryover:** Reduces deposits and improves heat transfer.

Typical Properties

Property	ISO 46	ISO 68	Method
Density @ 15°C (kg/L)	0.875	0.880	ASTM D4052
Kinematic Viscosity @ 40°C (mm ² /s)	46	68	ASTM D445
Kinematic Viscosity @ 100°C (mm ² /s)	6.5	8.5	ASTM D445
Viscosity Index (VI)	105	98	ASTM D2270
Flash Point (°C)	220	230	ASTM D92
Pour Point (°C)	-39	-36	ASTM D97
Acid Number (mg KOH/g)	≤ 0.05	≤ 0.05	ASTM D974





Water Content (ppm)	≤ 50	≤ 50	ASTM D6304
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Health & Safety:

Refrigeration Oil is formulated to meet safety and environmental standards. Avoid prolonged skin contact and inhalation of mist or vapors. For detailed health and safety information, refer to the **Material Safety Data Sheet (MSDS)**.

