



DESCRIPTION

ULTRA CLEAR PAO-RC COMPRESSOR 68 is designed to deliver reliable lubrication, excellent low-temperature performance, strong deposit control, and extended lubricant life in ammonia refrigeration compressor applications. Its PAO-based formulation and specialized additive technology make it suitable for demanding refrigeration environments where lubricant stability, component protection, and reduced maintenance are critical. The combination of high viscosity index, low pour point, low volatility, excellent thermal and oxidative stability, seal conditioning, and low foaming performance provides dependable compressor lubrication across a broad range of operating conditions.

APPLICATION

- Reciprocating refrigeration compressors
- Rotary screw refrigeration compressors
- Ammonia refrigeration systems
- Refrigeration systems operating under wide temperature variations
- Existing systems being converted from conventional lubricants to PAO-based refrigeration oil, subject to equipment and lubricant compatibility requirements

BENEFITS

- Provides reliable lubrication and wear protection to help maximize bearing service life and protect critical compressor components.
- The ashless formulation minimizes the potential for undesirable deposits and solid formation, helping maintain system cleanliness and compressor efficiency.
- The high viscosity index and low pour point promote rapid oil circulation and improved lubrication during cold start-up, helping reduce start-up wear.
- Effective protection against wear, rust, and corrosion helps extend the service life of bearings, coolers, compressors, and other lubricated components.
- The very low volatility of the PAO-based formulation helps minimize lubricant losses through evaporation, contributing to lower oil consumption.
- Excellent thermal, oxidative, and hydrolytic stability helps resist lubricant degradation, supporting longer oil service intervals and reducing the frequency of oil changes.
- The formulation's resistance to degradation and deposit formation helps maintain oil cleanliness and can contribute to longer filter service intervals.
- Longer lubricant and filter life, reduced oil consumption, improved component protection, and reduced deposit formation can collectively help minimize maintenance requirements and operating costs.

PRODUCT FEATURES

- Synthetic PAO-based formulation
- Extremely low dissolved water content
- Ashless additive technology
- High viscosity index
- Low pour point
- Excellent low-temperature fluidity
- Rust and corrosion protection
- Excellent thermal stability
- Excellent oxidative stability
- Excellent hydrolytic stability
- Seal-conditioning additive technology
- Very low volatility
- Very low foaming tendency

ULTRA CLEAR PAO-RC Compressor 68	TEST METHOD	VALUE
Kinematic Viscosity @ 40°C	ASTM D445	65.8
@ 100°C	ASTM D445	10.3
Viscosity Index	ASTM D2270	143
Moisture, ppm	ASTM D-1744	<50
Specific Gravity @ 15.6° C	ASTM D4052	0.836
Density, lb/gal	ASTM D-4052	6.98
Flash Point, °C	ASTM D93	263
Pour Point, °C	ASTM D97	-54
Demulsibility	ASTM D-1401	40/40/0 < 5min

Typical characteristics are only a guide to industry and are not necessarily manufacturing or marketing specifications and do not constitute any legal liability.

Sept 2026