Synthetic Rotary Compressor Oil – ISO 46 Grade

Base Oil Technology: **SYNTHETIC**

Data Sheet

TMC Industrial Synthetic Rotary Compressor Oil is engineered to provide excellent wear protection and long oil life in rotary compressors. It is formulated with high-quality synthetic base oils and premium additives for excellent all- temperature protection and long oil life, helping reduce maintenance.

Product Benefits

- Premium synthetic base oils promote cleanliness and reduce wear.
- **Up to 8,000-hour service** in rotary-screw compressors helps reduce maintenance.
- Protects at high temperatures while providing excellent. cold-temperature startup efficiency and lubrication.
- Excellent for centrifugal compressors.

Fights Wear

In addition to its premium synthetic base oils, TMC Industrial Synthetic Rotary Compressor Oil is formulated with anti-wear and anti-foam additives. Reducing foam helps decrease oxidation, heat and wear for maximum compressor life and reduced maintenance.

Resists Increased Heat

This oil combines the benefits of synthetic base oils with premium additives to resist carbon, varnish, and acids. It helps maintain cleanliness better than conventional oils for long component life and reduced maintenance.

Separates from Water

Water from condensation can accumulate in compressors and cause oil/water emulsions that lead to rust and corrosion. TMC Industrial Synthetic Rotary Compressor Oil is hydrolytically stable and readily separates from water for easy drainage and simple disposal. Its exceptional water-separating characteristics reduce problems with emulsion-formation coalescers and filters, reducing the need for frequent maintenance.

Applications

TMC Industrial Synthetic Rotary Compressor Oil is designed for single- and multi-stage rotary-screw and vane compressors, certain vacuum pumps and other compressor applications.

Service life is dependent on operating conditions and maintenance practices – a regular oil analysis program is recommended. Oil life up to 8,000 hours in rotary-screw compressors is expected under normal conditions.

Not compatible with synthetic silicone (Sullair 24kt) or polyglycol (PAG) fluids, such as Ingersoll-Rand* SSR Ultra Coolant and Sullube* 32. Polycarbonate plastic bowls should be metal covered.

Not recommended for “breathing air” or refrigeration compressors.

Typical Technical Properties**
TMC Industrial Synthetic Rotary Compressor Oil

ISO Viscosity Grade	ASTM D2422	46
Kinematic Viscosity @ 100°C, cSt	ASTM D445	7.4
Kinematic Viscosity @ 40°C, cSt	ASTM D445	43.7
Viscosity Index	ASTM D2270	132
Color	ASTM D1500	L0.5
Flash Point °C (°F)	ASTM D92	262 (504)
Fire Point °C (°F)	ASTM D92	284 (543)
Pour Point °C (°F)	ASTM D97	-38 (-36)
Four Ball Wear Test, mm scar	ASTM D4172	
75°C, 1200 rpm, 40 kg, 1 hr		0.41
Acid Number (TAN)	ASTM D665	0.29
Foam Characteristics, ml	ASTM D892	
Seq. I		0/0
Seq. II		0/0
Seq. III		0/0
Copper Corrosion, 121°C, 3 hr	ASTM D130	1A
Demulsibility	ASTM D1401	40-40-0 (10)
FZG Failure Stage, A/8.3/90	DIN 51534	–

Package Sizes

- 5-gallon pail
- 55-gallon drum
- 275-gallon tote (Call for Tote)

Health & Safety Information

For recommendations on safe handling and use of these products, refer to the Safety Data Sheet (SDS), which is available at www.tmcindustries.com

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***The typical properties listed above reflect the general characteristics of the product and are not manufacturing specifications. Variations that do not affect product performance should be expected. Product formulations are subject to change without notice. The customer or user is responsible for determining the product's suitability for use with their equipment.*