



Maxtron[®] R&O

Full-Synthetic R&O, Gear, Circulating, and Bearing Lubricant

General Description

Maxtron[®] R&O Lubricants are comprised of a line of full-synthetic, rust and oxidation inhibited, circulating, bearing and non-EP gear oils. Designed to provide outstanding equipment protection and extend oil life. The advantages of these lubricants over conventional mineral oils include superior component protection for equipment operating at high speed over a wide temperature range during longer drain intervals.

Maxtron R&O Lubricants are blended with select synthetic base oils and a balanced additive system that provides excellent thermal stability, resistance to oxidation, improved wear control, and reduced volatility. They also provide superior shear stability for equipment operating in wide temperature ranges resulting in longer lubricant and equipment life.

Maxtron R&O Lubricants can be used in older equipment. They are compatible with mineral oils, however, mixing these oils together may reduce their exceptional performance. To achieve maximum performance the system should be fully drained prior to filling with new oil. Additionally, these oils should not be mixed with Poly Alkyl Glycol (PAG) or Silicon type synthetic compressor oils.

Maxtron R&O is formulated to a variety of different ISO grades, so it is extremely important to use the correct grade in the equipment. Additionally, the ISO 68 and 100 grades have application in some rotary vane, screw and centrifugal air compressors. Always refer to the OEM manual and specs.

Maxtron R&O lubricants are not recommended for applications calling for AGMA EP lubricants.

Features and Benefits

- **Wide Temperature Range Operation:** Protects equipment at extremely low and high temperatures. This enables easier startup and cooler running during seasonal changes.
- **Extended Drain/Reduced Maintenance:** The Maxtron R&O oils withstand higher temperatures, provide superior wear protection, and keep systems cleaner resulting in longer service life, reduced downtime and extended drain intervals.
- **Improved Efficiencies:** These lubricants can reduce power consumption due to less viscous drag, increased efficiencies of sliding mechanisms and reduce overall friction.
- **Oxidation Control:** The synthetic base oil formulation provides a higher level of oxidation and thermal stability. These superior base oils also reduce varnish and carbon deposits, which provides extended oil and equipment life.
- **Naturally High Viscosity Index:** Provides the very best viscosity stability, resulting in reliable startup and improved component protection throughout the life of the lubricant.
- **Wear Prevention:** The combination of synthetic base oil and unique additives provide excellent gear and bearing protection in both high and low temperature applications.
- **Rust and Corrosion Protection:** Rapid water separation is the key to providing good demulsibility, rust, and corrosion control.
- **Anti-foam Abilities:** Provides foam control and air release properties.

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Typical Applications

AGMA 9005-E02, 250.04 R&O, (Non-EP)

- Enclosed gearboxes
- Bearing circulating oil
- Irrigation right angle drives
- Worm Gears (ISO 460 grade)
- Air compressors/vacuum pumps
- Low temperature applications
- High operating temperatures
- Equipment in remote locations

Typical Customers

Owners and operators of:

- Grain elevators
- Construction equipment
- Mobile and industrial equipment
- Mining
- Forestry
- Oil field equipment
- Industrial plants

Typical Properties

ISO Viscosity Grade	68	150	220	460
AGMA Synthetic R&O, Non- EP	2S	4S	5S	7S
API Gravity / lbs./gal	35.6 / 7.05	34.0 / 7.18	32.1 / 7.20	30.6 / 7.27
Flash Point, °C / °F	252 / 496	272 / 522	274 / 525	278 / 532
Viscosity @ 40°C, cSt	68.7	155.0	225.7	468.9
Viscosity @ 100°C, cSt	10.5	19.3	25.3	43.3
Viscosity Index	139	142	142	144
Pour Point, °C / °F	-43 / -42	-40 / -40	-40 / -40	-30 / -22
RPVOT Oxidation Test, D2272	1800	1750	1750	1750
NOACK Volatility %, DIN 51581	2.96	2.71	2.08	1.72
4-Ball Wear Test, D 4172	0.45	0.37	0.37	0.37
FZG Wear Test, (failure stage) DIN 51534	11	12	12	12

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

Health & Safety

A complete safety data sheet is available by calling 1-651-355-8438 or visit cenex.com/sds-library.