

# Mobil Rarus 427

## Air Compressor Lubricant

### Product Description

Mobil Rarus 427 is a premium performance ashless air compressor lubricant designed to meet the stringent requirements of major compressor manufacturers. It is formulated with high quality mineral base-oils and a high performance additive system designed to provide exceptional equipment protection and reliability for modern compressors operating under mild to severe conditions in marine and industrial applications. It provides excellent wear protection and the ability to reduce maintenance costs by minimising downstream deposits and carryover. Because of its high FZG Ratings, Mobil Rarus 427 is an outstanding lubricant for compressor systems employing gears and bearings making it an excellent selection for crankcases as well as cylinder lubricants.

Mobil Rarus 427 exceeds the requirements of DIN 51506 VD-L standards and demonstrates a very high resistance to oxidation and deposit formation. It is recommended or approved by many of the leading compressor manufacturers.

### Features and Benefits

The use of Mobil Rarus 427 can result in lower deposits and cleaner compressors compared to conventional mineral oils, resulting in longer running periods between maintenance intervals. The base oil used is carefully selected from a very narrow distillation range to insure low carbon forming tendencies at the elevated cylinder temperatures of reciprocating compressor operation. Its excellent oxidation and thermal stability safely allow extended life capability while controlling sludge and deposit formation. Mobil Rarus 427 possesses outstanding antiwear and corrosion protection, which enhances equipment life and performance.

Key features and potential benefits include:

Features	Advantages and Potential Benefits
Low ash and carbon formation	Improved valve performance and extended cleaning intervals Reduced deposits in discharge lines Reduced potential for fires and explosions in discharge systems Improved compressor performance
Outstanding oxidation and thermal stability	Longer oil and filter life Extended service intervals -vs-typical mineral based compressor oils Lower maintenance costs
High load-carrying ability	Reduced wear of rings, cylinders, bearings and gears
Excellent water separability	Less carryover to downstream equipment Reduced sludge formation in crankcases and discharge lines Reduced blockage of coalescents Less potential for emulsion formation Improved inter-and after-cooler efficiency
Effective rust and corrosion protection	Improved protection of valves and reduced wear of rings and cylinders

## Applications

Mobil Rarus 427 is recommended for single and multistage air compressors in marine and industrial applications. It is particularly effective for continuous high temperature operation with discharge temperatures up to 150°C. It is suitable for reciprocating air compressor crankcases and cylinders. Mobil Rarus 427 is recommended for units with a history of excess oil degradation, poor valve performance or deposit formation. It is compatible with all metals used in modern compressor construction and with mineral-oil compatible elastomers used in seals, O-rings and gaskets.

Mobil Rarus 427 is not intended or recommended for use in air compressors for breathing air applications.

## Specifications

### Typical Properties

<b>ISO Viscosity Grade</b>	<b>100</b>
Viscosity, ASTM D 445	
cSt @ 40°C	104.6
cSt @ 100°C	11.6
Viscosity Index, ASTM D 2270	100
Sulfated Ash, wt%, ASTM D 874	<0.01
Copper Strip Corrosion, ASTM D130, 3 h @ 100°C	1B
FZG Load Support, DIN 51534, Fail Stage	11
Rust Characteristics;	
ASTM D665 B	Pass
ASTM D665 A	Pass
Foam Seq I, ASTM D 892	30/0
Flash Point, °C, ASTM D 92	264
Density @ 15°C, ASTM D 1298	0.879

## Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application, following the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request through your sales contract office, or via the Internet on <http://www.exxonmobil.com>. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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ExxonMobil Lubricants & Specialties

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