



MOBIL RARUS 427

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.

PROPERTIES & 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:

Properties	Potential advantages and 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.

TYPICAL CHARACTERISTICS	
MOBIL RARUS 427	
ISO Viscosity Grade	100
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 & 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).

The typical property values shown in the table are average figures given as a guide. They do not constitute a guarantee. Values may be modified without notice.

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