



Mobil Rarus™ Excel Series

Mobil Industrial , South Korea

Air Compressor Lubricant

Product Description

The Mobil Rarus™ Excel Series is our improved premium performance ashless air compressor lubricant primarily intended for the lubrication of severe duty rotary and vane air compressors. These products are formulated with very high quality mineral base oils and a high performance additive system designed to provide exceptional equipment protection and reliability for compressors operating under severe conditions. Mobil Rarus™ Excel Series provide excellent wear protection, outstanding resistance to oxidation and thermal degradation leading to reduced deposit formation. Mobil Rarus™ Excel Series' exceptional water separation characteristics reduce emulsion formation and carryover into downstream piping and equipment.

Features and Benefits

The use of Mobil Rarus™ Excel Series can result in cleaner compressors and lower deposits compared to conventional mineral oils, resulting in longer running periods between maintenance intervals. Excellent oxidation and thermal stability safely allow extended life capability while controlling sludge and deposit formation. It also possesses outstanding anti-wear and corrosion protection, which enhances equipment life and performance.

Features	Advantages and Potential Benefits
Reduced Varnish and Sludge Formation	Improved valve performance Reduced deposits in discharge lines Reduced potential for fires and explosions in discharge systems Improved compressor performance
Outstanding Oxidation and Thermal Stability	Longer oil life Improved filter life Lower maintenance costs
Exceptional Water Separability	Less carryover to downstream equipment Reduced sludge formation in crankcases and discharge lines Reduced blockage of coalescers Less potential for emulsion formation
Effective Rust and Corrosion Protection	Improved protection of internal compressor components

Applications

Mobil Rarus™ Excel Series are primarily intended for rotary screw and vane air compressor. Mobil Rarus™ Excel Series are particularly effective in screw type compressors with oil injection cooling and in units with continuous high temperature operation (in line with DIN 51506 indications). The product is compatible with all metals used in compressor construction and with mineral-oil compatible elastomers used in seals, O-rings and gaskets.

Mobil Rarus™ Excel Series are not intended or recommended for use in air compressors for breathing applications.

The following types of compressors have shown excellent performance with Mobil Rarus™ Excel Series:

- Rotary screw compressors
- Rotary vane compressors
- Compressor systems with critical gears and bearings
- Compressors used in stationary and mobile applications

Specifications and Approvals

This product meets or exceeds the requirements of:	MOBIL RARUS 32 EXCEL	MOBIL RARUS 46 EXCEL	MOBIL RARUS 68 EXCEL
DIN 51506:2017-08 VDL	X	X	X

Properties and Specifications

Property	MOBIL RARUS 32 EXCEL	MOBIL RARUS 46 EXCEL	MOBIL RARUS 68 EXCEL
Grade	ISO 32	ISO 46	ISO 68
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1B	1B	1B
Density @ 15.6 C, g/ml, ASTM D4052	0.85	0.86	0.87
Emulsion, Time to 0 mL Emulsion, 54 C, min, ASTM D1401	10	10	10
Flash Point, Cleveland Open Cup, °C, ASTM D92	236	238	242
Foam, Sequence I, Stability, ml, ASTM D892	0	0	0
Foam, Sequence I, Tendency, ml, ASTM D892	10	20	0
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	5.4	7.0	8.9
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	29.1	44.5	64.9
Pour Point, °C, ASTM D97	-36	-30	-33
Rotating Pressure Vessel Oxidation Test, min, ASTM D2272	2577	2123	1758
Rust Characteristics, Procedure B, ASTM D665	Pass	Pass	Pass
Viscosity Index, ASTM D2270	120	116	108

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.as>

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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