



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 screw 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 and 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. They possess outstanding anti-wear and corrosion protection, which enhances equipment life and performance.

Features	Advantages and Potential Benefits
Reduced Vanish 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

Mobil Rarus™ Excel Series meets or exceeds the requirements of:	32	46	68
DIN 51506:2013-12 VDL	X	X	X
CHINA GB 12691-1990, L-DAB	X	X	X

Typical Properties

Mobil Rarus™ Excel Series	32	46	68
ISO Viscosity Grade	32	46	68
Density @ 15°C, ASTM D 1298	0.85	0.86	0.87
Viscosity, ASTM D 445			
cSt @ 40°C	29.1	44.5	64.9
cSt @ 100°C	5.4	7.0	8.9
Viscosity Index, ASTM D 2270	120	116	108
Demulsibility @ 54°C, min, Time to break, ASTM D1401	10	10	10
Copper Strip Corrosion, ASTM D130, 3 h @ 100° C	1B	1B	1B
RPVOT, min, ASTM D2272	2577	2123	1758
Rust Characteristics; ASTM D665 B;	Pass	Pass	Pass
Foam Seq I, mL/mL, ASTM D 892	10/0	20/0	0/0
Flash Point, °C, ASTM D 92	236	238	242
Pour Point, °C, ASTM D 97	-36	-30	-33

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office or via the Internet, or will be provided by seller to customers if and as legally required. 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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05-2020

Mobil Korea Lube Oil Inc.

Level 22, Seoul Square bd., Hangang-daero, Jung-gu, Seoul, Korea

+82-2-750-8700

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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