



**Mobil Rarus™ 424J**  
Mobil Industrial , Japan  
Long-life oil cooled screw compressor oil

Product Description

The Mobil Rarus™ 424J is a long-life compressor oil with significantly improved oxidation and thermal stability and sludge resistance to meet the stringent performance requirements for lubricants such as achieving of high efficiency in package type oil cooled screw compressors and reduction in size and increase in the load.

The Mobil Rarus 424J has a good blending balance between highly-purified premium-quality base oil and several kinds of special additives, helping to control formation of sludge due to oxidative degradation of oil under high temperature and constantly keep the inside of the system clean, also the product has the excellent water separability which facilitates the drain discharging. These features provide outstanding longer life compared to conventional screw compressor oils.

Features and Benefits

The use of the Mobil Rarus 424J can result in maintaining of cleaner compressors and lower deposits, resulting in longer running periods between maintenance in comparison to conventional mineral oils. The significantly improved oxidation and thermal stability allow outstandingly longer oil life while controlling sludge and corrosion formation under high temperature. This product has prominently excellent oxidation stability and corrosion protection, which enhances equipment life and performance.

Features	Advantages and Potential Benefits
Excellent oxidation and thermal stability, and sludge resistance	- Reduced oil agent cost due to long-life oil that can bear long period of use - Reduced system failure due to degradation of lubricant oils and loss due to stopping of operation - Reduced frequency of filter replacements, oil cooling system cleaning works, etc., replacement parts cost and labor cost - Reduced potential for dangerous fires and explosion accidents
Excellent emulsion resistance and water separability	- Reduced maintenance expenditures due to easy separation and discharging of condensed water contained in an oil tank - Reduced maintenance labor cost
Excellent rust and corrosion protection	- Preventing rusts due to condensed water contents in an oil tank and preventing corrosion of copper or aluminum parts - Longer equipment life - Reduced maintenance labor cost

Applications

The Mobil Rarus 424J is suitable as lubricant for stationary package type oil cooled screw compressors and mobile oil cooled screw compressors. Also, this product can be used as lubricant for oil cooled rotary vane compressors. This product is particularly effective for continuous high temperature operation.

The Mobil Rarus 424J is not designed and intended for use in air compressors for breathing applications. Also, it is not recommended for use for such applications.

Due to its excellent oxidation and thermal stability, it is also used as heat medium for closed systems.

The Mobil Rarus 424J shows excellent performance with the following types of compressors:

- Oil cooled rotary screw compressors
- Oil cooled rotary vane compressors
- Stationary and mobile package type compressors

Typical Properties

Mobil Rarus	424J
ISO Viscosity Grade	32
Viscosity, @ 40°C, mm <sup>2</sup> /s , JIS K2283	30.95
Viscosity, @ 100°C, mm <sup>2</sup> /s , JIS K2283	5.595
Viscosity index, JIS K 2283	120

Mobil Rarus	424J
Appearance	clear
Pour Point, °C, JIS K2269	-32.5
ASTM colour, JIS K2580	L0.5
Demulsibility, Time to emulsion formation to zero,minutes, JIS K2520	10
Foam Test, Seq I Tendency / Stability, ml, JIS K2518	10/0
Copper Strip Corrosion, JIS K2513, 3 h @ 100° C	1B
RPVOT, minutes, ASTM D2272	3360
Density, @ 15° C, JIS K2449	0.8506
Flash Point, °C, COC, JIS K2265	236

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 recommend 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. This p 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 Japan Godo Kaisha  
Shinagawa Grand Central Tower  
2-16-4, Konan, Minato-Ku,  
Tokyo, 108-8218,  
Japan

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