



Mobil Rarus™ 424J

Mobil Industrial , South Korea

Air Compressor Lubricant

Product Description

The Mobil Rarus™ 424J is the premium performance air compressor lubricant primarily intended for the lubrication of severe duty rotary screw and vane air compressors. The product is formulated with specific 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 424J provides excellent wear protection and outstanding resistance to oxidation and thermal degradation. Its exceptional water separating characteristics reduce problems with emulsion formation and carryover into downstream piping and equipment. The product is designed to meet the stringent requirements of the major compressor manufacturers.

Features and Benefits

The use of the Mobil Rarus 424J oil can result in cleaner compressors and lower deposits compared to conventional mineral oils, resulting in longer running periods between maintenance intervals. Their 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 |
|---|---|
| Reduce 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 |
| Excellent 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

The Mobil Rarus 424J oil is primarily for rotary screw and vane air compressor, very effective in screw type compressors with oil injection cooling; compressors with a history of excess oil degradation, poor valve performance or deposit formation. It is particularly effective for continuous high temperature operation. The maximum compressed air temperature, according to DIN 51506, is 220°C.. 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 424J oil is not intended or recommended for use in air compressors for breathing applications.

The following types of compressors have shown excellent performance with the Mobil Rarus 424J oil:

- Rotary screw compressors

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

Properties and Specifications

| Property | |
|--|--------|
| Grade | ISO 32 |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130 | 1B |
| Density @ 15 C, kg/l, ASTM D4052 | 0.8506 |
| Emulsion, Time to 0 mL Emulsion, 54 C, min, ASTM D1401 | 10 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 236 |
| Foam, Sequence I, Tendency, ml, ASTM D892 | 10 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 5.595 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 30.95 |
| Pour Point, °C, ASTM D97 | -30 |
| Rotating Pressure Vessel Oxidation Test, min, ASTM D2272 | 3360 |
| Rust Characteristics, Procedure B, ASTM D665 | PASS |
| Viscosity Index, ASTM D2270 | 120 |
| Foam, Sequence I, Stability, ml, ASTM D892 | 0 |

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.aspx>

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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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