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MORGOIL® Series Oils

Mobil Industrial, Russia

Premium circulating oils



Product description

MORGOIL® series oils are a family of heavy duty circulating oils specifically designed for the lubrication of plain bearings in metal rolling mills made by Pri Technologies. They are particularly effective in systems subjected to water contamination such as back-up roll bearings. In addition, MORGOIL products me Morgan "super demulsibility" advanced lubricant specification.

The strong performance record of MORGOIL® series oils in Primetals Technologies equipment owes to their balanced formulation which provides for excellent separation even under severe water contamination conditions. Their formulation also provides excellent resistance to thermal oxidation and degradation while prot metal surfaces against rust and corrosion. The high viscosity indices of MORGOIL series oils ensure robust fluid film hydrodynamic lubrication even at eletemperatures.

By resisting the formation of emulsion and sludge, MORGOIL® series oils help keep circulating systems clean and reduce filter loading. Solid contaminants are separated, enabling high oil cleanliness levels to be maintained via centrifuge, filtration or reservoir settling methods. MORGOIL series oils are recommended fc single and dual tank circulation systems.

Features and benefitsMORGOIL® series oils utilize the same technology found in Mobil Vacuoline 100 series oils, whose proven performance has made them the p choice of Primetals Technologies equipment owners worldwide. MORGOIL® series are the primary recommendation by Primetals Technologies for their rollin equipment and are supported with the joint expertise and field technical services offered by Mobil and Primetal Technologies.

Applications

MORGOIL® series oils are primarily recommended and are used almost exclusively for rolling mill applications, including:

- Back-up roll bearings of rolling mills, particularly bearing systems, where either a single or dual tank is employed
- Other full fluid film plain bearing systems and similar applications in other industries, particularly bearings subjected to heavy water contamination

Specifications and Approvals

| Features | Advantages and potential benefits |
|--|---|
| Outstanding demulsibility | Ready separation from water and contaminants throughout the life of the oil for trouble-free operation a duced downtime |
| Good resistance to oxidative degradation | Extended oil charge life and reduced oil replacement costs Cleaner system and filters and reduced maintenance costs |
| Excellent rust and corrosion protection | Enhanced equipment protection and equipment life |

Typical Properties

| Morgoil series oils | 150 | 220 | 320 | 460 | 680 |
|------------------------------|------|------|------|------|------|
| ISO Viscosity Grade | 150 | 220 | 320 | 460 | 680 |
| Viscosity, ASTM D 445 | | | | | |
| cSt @ 40°C | 150 | 220 | 320 | 460 | 680 |
| cSt@ 100°C | 14.8 | 18.8 | 23.9 | 30.1 | 36.7 |
| Viscosity Index, ASTM D 2270 | 96 | 95 | 95 | 95 | 91 |
| Pour Point, °C, ASTM D 97 | -9 | -6 | -9 | -6 | -6 |

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| Morgoil series oils | 150 | 220 | 320 | 460 | 680 |
|--|------|------|------|------|------|
| Flash Point, °C, ASTM D 92 | 280 | 288 | 286 | 296 | 318 |
| Specific Gravity @15.6°C, kg/l, ASTM D 4052 | 0.89 | 0.89 | 0.9 | 0.9 | 0.91 |
| Demulsibility for non-EP oils, ASTM D2711, ml water | | 36 | 39 | 41 | 40 |
| Demulsibility at 82°C, ASTM D 1401 Minutes to 3ml Emulsion | | 20 | 25 | 30 | 35 |
| Rust Protection, ASTM D665 Distilled Water | Pass | Pass | Pass | Pass | Pass |
| Copper Corrosion, ASTM D130 3 hours @ 100°C | | 1B | 1B | 1B | 1B |
| Foam Test, ASTM D 892, Seq I Tendency / Stability, ml/ml | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 |

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 recommenc provided in the Safety Data Sheet (SDS) are followed. SDS's are available upon request through your sales contract office, or via the Intern www.mobil.com/industrial. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environn

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You can always contact our Technical Help Desk engineers on Mobil lubricants and services related questions: https://www.mobil.ru/ru-ru/contact-us-technical

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

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