

Mobil Vacuoline 100 Series

Premium Circulation Oil for Back-Up Roll Bearings

The Mobil logo consists of the word "Mobil" in a blue, sans-serif font. To the right of the text is a red, curved graphic element that resembles a stylized flame or a drop.

Product Description

Mobil Vacuoline 100 Series lubricants are premium quality circulation oils primarily intended for the lubrication of plain bearings in systems designed for full fluid lubrication, particularly those subjected to heavy water contamination, such as may be used for back-up roll bearings in metal rolling mills. Specifically, they meet the requirements for Morgoil bearings manufactured by the Morgan Constructon Company, Worcester, MA, USA. The Mobil Vacuoline 100 Series are formulated from high-quality base stocks and additives to provide outstanding water separation ability, excellent resistance to thermal degradation and oxidation, and protection against rust and corrosion in both the liquid and vapor phases. Mobil Vacuoline 100 Series oils do not form oxidation products even under high-temperature operating conditions and they are resistant to the formation of emulsion and sludge. Consequently the oils contribute to cleaner systems and filters. Also solid contaminants separate readily for easy cleaning by centrifuge, filtration or settling. The products have a high viscosity index and excellent lubrication properties to reduce friction and prevent wear. They also have good low temperature performance. The Mobil Vacuoline 100 Series possess good demulsibility which is retained under conditions of severe water contamination.

Benefits/Advantages

- Extended oil charge life due to excellent resistance to oxidation.
- Ready separation from water throughout the life of the oil.
- Cleaner systems and filters due to reduced emulsion and sludge.
- Good protection against rust and corrosion.
- Reduction in wear.
- Fewer unscheduled stoppages and lower maintenance costs.

Application

Mobil Vacuoline 100 Series oils are primarily recommended for use in systems incorporating Morgoil bearings, which are designed for full fluid lubrication and are used almost exclusively for back-up and work roll bearings in metal rolling mills. The oils are also suitable for other full fluid bearing systems and similar type applications in other industries, particularly where the bearings are subjected to heavy water contamination.



Typical Properties

Mobil Vacuoline	133	137	148
ISO VG	220	320	680
Viscosity			
cSt at 40°C	219	321	702
cSt at 100°C	18.9	24.2	38.0
Viscosity Index	95	95	95
Specific Gravity	0.983	0.897	0.909
Flash Point, °C	224	238	293
Pour Point, °C	-7	-7	-7
Rust Protection Distilled Water	Pass	Pass	Pass
Copper Corrosion 3hrs at 100°C	1B	1B	1B
Demulsibility at 82°C minutes to 3ml	20	40	40
Color	4.5	5.0	8.0

Health and Safety

Based on available toxicological information, these products produce no adverse effects on health when properly handled and used. No special precautions are suggested beyond attention to good personal hygiene, including laundering oil-soaked clothing and washing skin contact areas with soap and water. Additional health and safety information on these products, including Material Safety Data Bulletins, is available on request from your local ExxonMobil company

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