



## Bearing Oil M

Conoco Bearing Oil M is a high-quality rust and oxidation-inhibited bearing oil developed for use in Morgan Construction rolling mill bearings requiring "Super Demulsibility" per MORGOL™ Bearing Division Advanced Lubricant Specification, Revision 2.1.

Bearing Oil M is available in three viscosity grades: ISO 100, 220 and 460. It is formulated with high-quality, paraffinic base oils and fortified with additives that provide excellent water-separating characteristics to minimize the formation of emulsions in circulating systems subject to contamination with large quantities of water, rolling solutions, dirt and scale. It also provides oxidation resistance, rust and corrosion protection, and foam resistance.

Bearing Oil M controls deposit and sludge formation by separating water rapidly. This results in reduced filter plugging, cleaner operating system, cost savings and less downtime.

### **Applications**

- MORGOL™ Bearings
- Backup roll bearings in ferrous and non-ferrous rolling mills
- Circulating systems where contamination with water is a problem
- Large, slow-speed gears in mixers and mills
- Hot and cold strip mills
- U.S. Steel 135 Mill Circulating Oil

### **Outstanding Features**

- Excellent water-separating characteristics, minimizes the formation of emulsions
- Good oxidation resistance, minimizes sludge and varnish formation
- Good rust and corrosion protection
- Good foam resistance

**High-Quality,  
Rust And  
Oxidation-  
Inhibited  
Bearing Oil**

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**Bearing Oil M**  
**Typical Properties**

	<b>M100</b>	<b>M220</b>	<b>M460</b>
<b>ISO Grade</b>	100	220	460
Specific Gravity @ 15.6°C	0.874	0.886	0.897
Density, lb/gal	7.29	7.39	7.48
Gravity, °API	30.4	28.3	26.3
Color, ASTM D1500	0.5	4.0	4.5
Flash Point, (COC), °C (°F), ASTM D92	265 (509)	275 (527)	293 (560)
Pour Point, °C (°F), ASTM D97	-35 (-31)	-14 (7)	-6 (21)
Viscosity, ASTM D445			
cSt @ 40°C	97.8	220	445
cSt @ 100°C	11.4	19.3	30.3
SUS @ 100°F	509	1162	2381
SUS @ 210°F	65	98	149
Viscosity Index, ASTM D2270	103	98	97
Copper Corrosion, ASTM D130	1A	1A	1A
Demulsibility, ASTM D1401, minutes to pass	<20	<20	<40
Demulsibility, Free Water @ 82°C, ASTM D2711, ml	<30	<30	<30
Demulsibility, UEC Dynamic Endurance Test	<10	<11	<12
Foam Test, ASTM D892	Pass	Pass	Pass
Rust Test, ASTM D665 A&B	Pass	Pass	Pass
Total Acid No., ASTM D 974	0.05	0.05	0.05
Oxidative Stability, RPVOT, ASTM D2272, minutes	770	765	683

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