





XD Bearing Oil

XD Bearing Oil is a high-performance antiwear circulating oil specifically developed for use in Morgan Construction No-Twist® rod mills. It provides excellent wear protection and rapid water separation for use in rod and bar mill rolling applications.

XD Bearing Oil is formulated to provide good oxidation resistance, excellent wear protection, protection against rust and corrosion, and resistance to foaming. It has good oxidation resistance and thermal stability at high temperatures to minimize sludge and varnish formation, and provide long service life. It has excellent antiwear properties to help protect the gears, shafts, bearings and adjusting screws during the extrusion process. It has excellent water-separating properties to minimize the formation of emulsions in circulating systems subject to contamination with large quantities of water. It protects system components against rust and corrosion, and is resistant to excessive foam buildup that can interfere with proper lubrication.

Applications

- Morgan, Danieli, Demag and Pomini rod and bar mills
- Circulating oil for ferrous and non-ferrous rolling mills
- Circulating systems where water contamination is a problem
- · Large, slow-speed gears in mixers and mills
- · Hot and cold strip mills

XD Bearing Oil meets the requirements of the following OEM specification:

Morgan MMC40003 (ISO VG 100)

Features/Benefits

- · Excellent wear protection
- Excellent water-separating properties
- · Good oxidation resistance and thermal stability
- · Protects against rust and corrosion
- · Good foam resistance

High-Performance Circulating Oil For Morgan High-Speed No-Twist® Rod Mills

CONTACT

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XD Bearing Oil

Typical Properties				
ISO Grade	100	150	320	460
Specific Gravity @ 60°F	0.877	0.883	0.891	0.894
Density, lbs/gal @ 60°F	7.30	7.35	7.42	7.45
Color, ASTM D1500	1.0	3.0	5.0	5.0
Flash Point (COC), °C (°F)	267 (513)	273 (523)	282 (540)	270 (518)
Pour Point, °C (°F)	-18 (0)	-21 (-6)	-15 (5)	-12 (10)
Viscosity,				
cSt @ 40°C	97.5	150	320	462
cSt @ 100°C	11.4	14.7	24.3	30.4
SUS @ 100°F	507	788	1,703	2,478
SUS @ 210°F	65.4	78.5	121	149
Viscosity Index	104	97	97	95
Acid Number, ASTM D974, mg KOH/g	0.65	0.65	0.65	0.65
Copper Corrosion, ASTM D130	1b	1b	1b	1b
Demulsibility, ASTM D1401, minutes to pass	25	25	25	25
Demulsibility, ASTM D2711,				
Free Water @ 82°C, ml	36	36	36	36
Emulsion @ 82°C, ml	0	0	0	0
Water in Oil @ 82°C, vol %	0.4	0.4	0.4	0.4
Foam Test, ASTM D892, Seq. I	0/0	0/0	0/0	0/0
Four-Ball Wear, ASTM D4172,				
Scar Diameter, mm	0.36	0.35	0.33	0.33
FZG Scuffing Test, ASTM D5182, Failure Load	Stage 12	12	12	12
Oxidation Stability,				
RPVOT, ASTM D2272, minutes	198	211	211	224
Rust Test, ASTM D665 A	Pass	Pass	Pass	Pass

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via http://w3apps.phillips66.com/NetMSDS.