



LUBRICANTS

POWER TO PERFORM

HP STEEL EP 100 BEARING OILS FOR STEEL PLANTS

SPECIAL FEATURES

HP STEEL EP 100 is a specially formulated premium bearing and hydraulic oil to meet the specific requirements in steel plants. It meets extreme pressure and good demulsibility requirements in bearing lubrication.

It is blended from premium quality base stock and selected grades of anti-oxidants, anti-rust, deemulsifier, defoamant, anti-rust and mild anti-wear additives. This oil is suitable for use in conditions where very good load bearing ability along with excellent demulsibility characteristics are critical requirements. This product has good wettability and high film strength providing extra rust protection and eliminating scuffing and scoring of the bearing. It has a good water separating ability which is retained at a high level during extended use in water quenching conditions.

SPECIFICATIONS

It meets the specifications of MORGAN CONSTRUCTION CO., USA. the worldwide manufacturer of No-Twist Rod Mills.

APPLICATION AREA

This oil has very good demulsibility characteristics and hence it is recommended for use in all Mergoil bearings in no-twist rod mills in Steel Plants. It is also recommended in applications where severe load conditions are encountered.

PHYSICO-CHEMICAL PROPERTIES

	STEEL EP 100
Viscosity Grade ISO VG	100
API Gravity	28
Specific Gravity @ 60/60°F	0.896
Pour Point, °C	-15
Flash Point, COC, °C	228
Viscosity @ 40°C, cSt	99.95
Viscosity @ 100°C, cSt	11.4



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Viscosity @ 37.8°C, SUS	463.34
Viscosity @ 98.9°C, SUS	63.82
Viscosity Index	100
Colour	3.5
Rust Test	Pass
Battery Jar Rust Test	Pass
Demulsibility Total Free Water, ml Minutes to achieve 40/37/3	38 <15
Copper Strip, Corrosion, At 100°C For 3 Hours	1A
4 Ball EP Test, Weld Load, Kg,	>160
4 Ball Wear, 54°C, 1800 rpm, 20 Kgs, 1 Hr, WSD, mm Max	0.25
RPVOT, Minimum Minutes To Fail	290
FZG EP Test, PLS	12
Oxidation Stability after 1000 Hrs	0.68 @ 1500 hrs
Air Release value @ 50°C	10
Air Release Value @ 75°C	4
Foam Stability, ml, after 10 min Settling Time Sequence I Sequence II Sequence III	 nil nil nil
Neut Number TAN	0.2

PERFORMANCE BENEFITS

- Excellent extreme pressure characteristics
- Very good oxidation and chemical stability
- High FZG rating
- Excellent demulsibility
- Good resistance to foaming
- Full protection against rusting