



**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, demulsifier, 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 Morgoil bearings in no-twist rod mills in Steel Plants. It is also recommended in applications where severe load conditions are encountered.

**AUTHORISED CFA / ILD / LD**

**PANVEL INDUSTRIAL FASTNERS PVT LTD**

**Plot No 29 to 33 & 37, Jawahar Co-operative Industrial Estate, Kamothe, Navi Mumbai - 410209**

**Contact - 022-27431702 / 9821137735 , panvelcfa\_hpcl@rediffmail.com**



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### **PHYSICO-CHEMICAL PROPERTIES**

Characteristics	Typical value	Test Method
VISCOSITY GRADE	ISO VG 100	ISO 3448
API GRAVITY	28	ASTM D 287
SPECIFIC GRAVITY @ 60/60° F	0.896	ASTM D 1298
POUR POINT, °C	-15	ASTM D 97
FLASH POINT, COC, °C	228	ASTM D 92
VISCOSITY @ 40°C, CST	93.2	ASTM D 445
VISCOSITY @ 100°C, CST	10.7	ASTM D 445
VISCOSITY INDEX	98	ASTM D 2270
COLOUR	1.5	ASTM D 1500
RUST TEST	Pass	ASTM D 665
BATTERY JAR RUST TEST	pass	MOBIL
DEMULSIBILITY	40-37-3(10 MINUTES)	ASTM D 1401
DEMULSIBILITY		ASTM D 2711
TOTAL FREE WATER, ML	38	
DYNAMIC DEMULSIBILITY ENDURANCE		RUN AT CLARK LAB
MAX. % WATER IN OIL		
AFTER CENTRIFUGING	10%	
MAX. % OIL IN WATER		
AFTER CENTRIFUGING	1	
COPPER STRIP, CORROSION, AT 1000C FOR 3 HOURS	1A	ASTM D 130

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Characteristics	Typical value	Test Method
4 BALL EP TEST, WELD LOAD, KG,	>160	ASTM D 2783
4 BALL WEAR, 54°C, 1800 RPM, 20 KGS, 1 HR, WSD, MM MAX	0.25	ASTM D 2266
RPVOT, MINIMUM MINUTES TO FAIL	290	ASTM D 2272
FZG EP TEST, PLS	12	DIN 51534
AIR RELEASE VALUE @ 50 °C	7.5	ASTM D 3427
AIR RELEASE VALUE @ 75 °C	4	ASTM D 3427
FOAM STABILITY, ML, AFTER 10 MIN SETTLING TIME		ASTM D 892
SEQUENCE I	0	
SEQUENCE II	0	
SEQUENCE III	0	

### **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

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