



LUBRICANTS™

POWER TO PERFORM™

HP STEEL 320

BEARING OILS FOR STEEL PLANTS

SPECIAL FEATURES

HP STEEL Grades are premium quality heavy duty bearing and circulating oil. They have high viscosity index with superior oxidation and thermal stability. They meet the requirement of high demulsibility, low foaming, excellent rust protection and good film strength property to minimize wear in roll-neck bearings of steel mills.

HP STEEL Grades are blended from high quality paraffinic base oils having a high chemical stability. The quality of the oil is further enhanced by the presence of selected grades of anti-oxidants, anti-rust, demulsifier and defoamants. These oils are suitable for use in bearings under critical conditions of exposure to water at high pressure and extreme load conditions. These products have good wettability and high film strength providing extra rust protection and eliminate scuffing and scoring of the bearing.

SPECIFICATIONS

HP STEEL Grades meet the requirements of bearing lubricant specified by MORGAN CONSTRUCTION CO., USA. These oils meet the performance requirements of IS: 6552-1987 and IPSS: 1-09-001-97.

APPLICATION AREA

These oils are suitable for use in the Morgan Bearings of Steel Mills. Morgan Bearings are used in the Plate Mill, Wire Rod Mill, Merchant Mill, Blooming and Billet Mill, and Rail & Structural Mill. The oils are also recommended for those places where the bearings are under heavy load and in the presence of water.



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PHYSICO-CHEMICAL PROPERTIES

| | |
|--|----------------|
| Appearance | Bright & Clear |
| Acidity, Inorganic, mg KOH/g | Nil |
| Acidity, Total, mg KOH/g | <0.25 |
| Carbon Residue, Conradson % Wt | <0.20 |
| Colour, ASTM | <4.5 |
| Copper Strip, Corrosion, At 100°C For 3 Hrs | 1 |
| Density @ 29.5°C, g/cc | 0.894 |
| Emulsion Characteristics At 82°C, In 20 Minutes, ml | 40-37-3 |
| Emulsion Characteristics, Water, ml | 36 |
| Flash Point, COC, °C | >226 |
| Foam Tendency/Stability, ml Sequence I | 30/Nil |
| Sequence II | 0/Nil |
| Sequence III | 30/Nil |
| FZG Rig Test (A/8.3/90), FLS | >5 |
| Pour Point, °C | -6 |
| Rusting Test 24 Hrs, Distilled Water | Pass |
| 24 Hrs With Synthetic Sea Water | Pass |
| Kin. Viscosity @ 40°C, cSt | 315-330 |
| Kin. Viscosity @ 100°C, cSt | 20.80 |
| Viscosity Index | >95 |
| Four Ball Weld Load, kg | >100 |