PINNACLE RESOURCES, INC.

Technical Data Sheet

Moly Gear Lubricant w/Tac (Red)

ISO Grades: 150, 220, 320, 460, 680

Product Description

Premium quality extreme pressure industrial gear lubricants made from highly refined base stocks and compounded with additives to impart special film strength, anti-wear, oiliness, antioxidant, corrosion inhibitor, and foam suppressant characteristics. The additive system consists of sulfur-phosphorous based EP technology for modification of gear rubbing surfaces to prevent welding and galling from inadequate film strength. The EP action is formed by chemical reaction between the additives and the metal surfaces under conditions of metal-to-metal contact resulting in boundary-film lubrication. It is formulated with an oil soluble molybdenum additive, that sits on metal surfaces of gears and bearings rendering superior wear protection. The advanced tackifier system incorporated in this oil helps the oil cling to the metal surfaces of gears and bearings.

Applications

Recommended for their excellent oxidation and thermal stability to minimize viscosity increase and sludge formation at operating temperatures up to 200°F. They separate readily from water. Moly Gear Lubricant w/Tac are suitable for heavily loaded gear units and for gears subjected to shock loading. The product is suggested for lubrication of various gear types such as spur, bevel, helical, worm, and industrial hypoid cases on mobile type equipment. Included also are gear systems incorporated in cement mills, ball mills, crushers, hoists, winches, and marine equipment. They are also suitable for application in plain and rolling contact bearings. Industrial EP Gear Lubricants meet the following requirements: AGMA 250.04, ANSI/AGMA 9005-D94; US STEEL 224; Cincinnati Machine (appropriate viscosity grades); DIN 51517 (Sec.3); and David Brown SL 53.101

Typical Properties

Property	ISO 150	ISO 220	ISO 320	ISO 460	ISO 680
AGMA Number	4 EP	5 EP	6EP	7 EP	8 EP
Viscosity @ 40°C (cSt)	147.8	220.9	320.9	475.3	678.3
Viscosity @ 100°C (cSt)	14.4	18.8	24.0	31.0	39.0
Viscosity Index	95	95	95	95	95
Pour Point °F	-10	-5	-5	0	5
Rust Test (ASTM D665A)	Pass	Pass	Pass	Pass	Pass
Four Ball Weld, EP kgf	400	400	400	400	400
Four Ball Load Wear Index	55	55	55	55	55
Four Ball Wear, mm	0.30	0.30	0.30	0.30	0.30
Gravity, API @ 60°F	27	26	26	25	24

*The values shown are typical of current production. Some are controlled in the manufacturing process, while others are not. All of them may vary within tolerable ranges.