

**STERN Industrial EP Gear Oil P-Series**

Premium quality non-lead general purpose extreme pressure industrial gear oils made from highly refined base stocks and compounded with additives to impart special film strength, anti-wear, oiliness, anti-oxidant, 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.

**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. Industrial EP Gear Oils 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); Joy Technologies TO-LEP (ISO 68); DIN 51517 (Sec.3); and David Brown SL 53.101.

**TYPICAL PROPERTIES**

<b><i>Industrial EP Gear Lubricants</i></b>	<b><i>ISO 68</i></b>	<b><i>ISO 220</i></b>	<b><i>ISO 320</i></b>
<i>AGMA Number</i>	2EP	5EP	6EP
<i>Viscosity (cSt) at 40°C</i>	67.6	220.9	320.9
<i>Viscosity (cSt) at 100 °C</i>	8.5	18.8	24.0
<i>Viscosity, SUS at 100 °F</i>	353	1166	1707
<i>Viscosity, SUS at 210 °F</i>	52	85	106
<i>Viscosity Index</i>	95	95	95
<i>Pour Pt, Deg °F/°C</i>	-15/-26	-5/-21	-5/-21
<i>Four Ball Weld, EP kgf</i>	275	275	275
<i>Four Ball Load Wear Index</i>	55	55	55
<i>Four Ball Wear, mm</i>	0.35	0.35	0.35
<i>Gravity, API @ 60 °F</i>	29	26	26