



LUBRICANTS



Product Data Sheet

Industrial EP Gear Oil

High quality industrial gear and bearing oil

Premium, extreme pressure (EP) industrial gear oils designed to deliver performance beyond today's standard gear oils. These AGMA EP gear oils are fortified with advanced, extreme-pressure additives, designed to provide superior performance in enclosed gear sets operating under severe service conditions. They provide outstanding protection in industrial gear sets operating under severe conditions such as intermittent shock loads, high peak loads, and heavy tooth loads.

Features and Benefits

- Light colored gear oil
- Superior bearing protection
- Excellent anti-foam protection
- Outstanding demulsibility characteristics
- Excellent rust and corrosion protection
- Protection from galling, scuffing and welding of gear teeth
- Non-corrosive to bronze, brass, copper and other copper alloy parts

Applications

Recommended for the lubrication of slides, ways, sprockets, chain drives, winches, hoists, and machine tools. Additionally, these industrial gear oils meet the following performance requirements (for the appropriate viscosity grades):

- AGMA 250.04, 251.02
- AGMA 9005-E02 EP
- DIN 51517, Part 3
- US Steel 224
- David Brown S1.53.101
- Cincinnati Machine
- ISO 12925-1 Type CKD



1-800-566-4853



Tulsa, OK 74133



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Typical Properties

ISO Viscosity Grade	Test Method	68	100	150	220	320	460
Product Code		343816	343818	343817	343819	343821	343823
AGMA Grade		2EP	3EP	4EP	5EP	6EP	7EP
Viscosity, cSt @ 40°C	ASTM D-445	68	100	150	220	320	460
Viscosity, cSt @ 100°C	ASTM D-445	8.6	11.0	14.4	18.7	23.8	30.0
Viscosity Index	ASTM D-2270	97	96	95	95	95	95
Color**	ASTM D-1500	2.0	3.0	3.5	4.0	4.5	4.5
Pour Point, °F (°C)	ASTM D-5949	5 (-15)	5 (-15)	10 (-12)	10 (-12)	10 (-12)	15 (-9)
Flash Point, COC, °F (°C)	ASTM D-92	430 (221)	440 (226)	460 (236)	460 (236)	500 (260)	550 (286)
FZG Scuffing Test, stages	ASTM D-5182	12	12	12	12	12	12
Timken OK Load, lbs	ASTM D-2782	60	60	60	65	65	75
Four-Ball Wear Test, mm	ASTM D-2266	0.27	0.26	0.26	0.27	0.26	0.23
Four-Ball EP Test Load-Wear Index (LWI), kgf	ASTM D -2783	47	47	47	54	65	66
Weld Point, kgf		250	250	250	250	250	250
API Gravity, 60°F	ASTM D-1298A	29.6	29.0	28.2	28.0	27.3	27.0
Density, lbs/gal (g/L)	Calculated	7.30 (875)	7.33 (878)	7.37 (883)	7.40 (887)	7.44 (891)	7.45 (893)
Cincinnati Machine		P-63	P-76	P-77	P-74	P-59	P-35

These properties are typical of current production, minor variations are to be expected in normal manufacturing.

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