

AUTOMOTIVE GEAR OILS

EP 90; EP 80W90 & EP 85W140 (GL4)

DESCRIPTION

High performance mild extreme pressure gear lubricant, containing multi-functional additives required for mild Extreme pressure conditions.

APPLICATION

Manual transmission transaxles, planetary hub & other spur gear axles which specifically require mild EP gear oils meeting API GL-4

PERFORMANCE LEVELS

- MIL-2105-D (ABSOLUT)
- MAN 342 N
- ZF TE MC 05A, 07A, 12E, 16B, C, D, 17B AND 19B

BENEFITS

High performance, EP additives systems controls transmission gear tooth wear, excellent load carrying capacity to protect gear equipment against surface stress under heavily loaded conditions. GL-4 gear oils have been fortified with anti-wear, anti-oxidant, anti-foam, anti-corrosion and extreme pressure additives.

TYPICAL PHYSICAL CHARACTERISTICS	EP 80W90	EP 90	EP 85W140
Density @20 °C kg/ l	0.893	0.9	0.912
Viscosity @ 40 °C	170	172.	430
Viscosity Cst @ 100 °C	16.4	16.7	29
Viscosity Index	102	97	99
Pour Point C (Max)	-33	-24	-27
Flash Point C (Min)	175	222	212

INDUSTRIAL GEAR OILS

IGO 68, 100, 150, 220, 320, 460, 680, 1000

DESCRIPTION

Ecotech Industrial Gear Oils are superior performance gear lubes. Premium base oils with an effective sulfur-phosphorous EP additive system, minimize wear of enclosed gears and other equipment operating under heavy loads and shock conditions.

These premium gear lubes utilize high viscosity index (HVI) base oils to provide high flash points, low volatility and superior oxidation stability. They provide outstanding protection in industrial gear sets operating under severe conditions, such as intermittent shock loads, high peak loads and heavy tooth loads.

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These quality extreme-pressure gear oils offer:

- Superior bearing protection
- Excellent anti-foam protection
- Excellent rust and corrosion protection
- Outstanding demulsibility characteristics
- Resistance to oxidative sludge and varnish
- Protection from galling, scuffing and welding of gear teeth
- Spec Oil EP Industrial Gear Oils are ideal for heavy-loaded enclosed gear sets where extreme-pressure properties and adequate film strength are critical for industrial hypoid gear cases, as well as plain, ball, roller and sleeve type bearings. They may also be used for the lubrication of slides, ways, sprockets, chain drives, winches, hoist and machine tools.

These Gear Oils also meet or exceeds the following performance requirements in the appropriate grades.

- US Steel 224
- AGMA 250.04, 251.02
- David Brown S1.53.101
- DIN 51517, Part 3
- Cincinnati Machine

TYPICAL PHYSICAL CHARACTERISTICS

IGO	68	100	150	220	320	460	680	1000
Kinematic Viscosity @ 40°C	68	100	150	220	320	460	680	1000
100°C mm ² /s	8.7	11.4	15	19.4	25	30.8	38	43.8
Viscosity Index	100	100	100	100	100	97	92	84
Density @ 15°C kg/l	0.887	0.891	0.897	0.899	0.903	0.904	0.912	0.931
Flash Point °C	191	193	196	199	202	204	204	205
Pour Point °C	-27	-27	-21	-18	-15	-9	-9	-12