

HD EP GEARTECH GL-5 (INDUSTRIAL GEAR OIL)

DESCRIPTION:

HD EP GEARTECH high performance gear oil developed for wind turbines and various types of industrial heavy loaded gearboxes and worm wheel boxes operating under normal to extremely heavy duty conditions. Formulated with high quality mineral base oil stocks, **extra anti-foam (silicon free defoamer) with ester additive and excellent load carrying capacity**, extreme pressure (EP), anti-foam additives, anti-oxidant, anti-rust & water demulsibility, oxidation stability, corrosion protection and increase long drain intervals to provide optimum equipment protection and oil life even under extreme conditions compare to normal EP gear oil to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. It also offers the potential for improved lubrication of gearbox rolling element bearings.

APPLICATION

- Recommended for Wind turbine gear drives, power generation & Industrial gear drives such as heavily loaded gear drives of all sizes and capacities, especially for heavy loads and high shock loaded gear units, remotely located units and extreme high & low temperature environments.
- Mining gear drives requiring additional protection such as conveyer belts, shaft winder gear drives, Mill crushers, Sugar, Steel, Cement Mill & other processing units for heavy duty industrial gear drives.
- Recommended for all types of steel industrial gears in a closed sump, operating under severe service conditions and subjected to high shock loads, including those that work at very high speed.
- HD EP GEARTECH is long life gear oils range for the lubrication of worm gears, Bevel Helical gears, Planetary gears, Helical gears, Power generation such as mills and heavy loaded gear drives.

FEATURES & BENEFITS

- Excellent lubricating power. Reduce the coefficient of friction under thin film lubricating conditions.
- Great thermal and oxidation stability, Excellent cleanliness for sludge free gear drives at high temperature.
- High anti-corrosive & anti-rust power in the presence of humidity.
- Highly resistance to the formation of foam and water emulsions.
- Limits power loss from friction and makes gears function smoothly, uniformly and silently with low noise.
- Increase the useful life of the gears and bearings, Excellent protection against wear by micropitting.
- High quality base oil stocks with high viscosity index ensure good lubricant film thickness over a broad temperature range, as a result of its great oxidation stability.

PROPERTIES

ISO GRADE	68	150	220	320	460	680
Viscosity @ 40°C Cst	68	150	220	320	460	680
Viscosity @ 100°C Cst	8.7	15.1	19.2	25	30.8	38
Viscosity Index	100	102	102	102	99	95
Pour Point °C	-24	-24	-19	-15	-12	-9
Flash Point °C	240	240	240	250	250	250
Density @ 15°C	0.887	0.897	0.902	0.917	0.920	0.924
4 Ball EP Weld Load Test in kgs	>250	>250	>250	>250	>250	>250
Foam Tendency, SEQ-I	10/0	10/0	10/0	10/0	10/0	10/0
Copper Strip Corrosion@ 100 °C for 24 hrs.	1b	1b	1b	1b	1b	1b
Rust Protection Sea Water	Pass	Pass	Pass	Pass	Pass	Pass
Total Acid Number, mg KOH/g	0.9	0.9	0.9	0.9	0.9	0.9

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