

HD SYNTHGEAR EP GL-5 (PAG- Polyalkylene Glycol-Ester Based)

DESCRIPTION: HD SYNTHGEAR EP are premium high performance advanced fully synthetic gear oils specially 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 PAG/Ester based (Polyalkylene Glycol) with high viscosity index synthetic base oil, extra anti-foam (silicon free defoamer) with ester additive and excellent load carrying capacity, extreme pressure, anti-oxidant & anti-rust additives. HD SYNTHGEAR EP oils provide clean-gear performance, excellent extreme pressure and Micro-pitting protection, anti-wear, superior performance across wide temperature range, and provides energy saving opportunities with reduced bulk oil temperatures, smooth operation of the gear drives and up to 2x longer lasting performance. Polyalkylene Glycol (PAG) is 100% synthetic base oil which provides longer lubrication.

APPLICATION

- Recommended for industrial & wind turbines gearboxes of all sizes and capacities, especially for heavy loads and high shock loaded gear units at extreme high & low temperature environments.
- It is especially recommended for wind turbines & industrial heavy loaded industrial gearboxes applications such as main gear motors for pitch and yaw drives that may be subject to Auxiliary gearboxes, micro pitting, gearbox rolling element bearings, especially heavily loaded gearboxes with surface-hardened tooth metallurgies at high and low speed.
- HD SYNTHGEAR EP is long life synthetic oils range for the lubrication of worm gears, Bevel Helical & Planetary gears, Helical gears, Power generation gear drives for mills and heavily 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 synthetic PAG/Ester based (Polyalkylene Glycol) base oil with high viscosity index ensure good lubricant film thickness over a broad temperature range. Due to its synthetic nature, it allows extend long drain interval more than 7 years and improve the reliability of your gearboxes.

PROPERTIES

ISO GRADE	68	100	150	220	320	460	680	1000
Viscosity @ 40°C Cst	68	100	150	220	320	460	680	1000
Viscosity @ 100°C Cst	11.8	17.8	27.4	39.6	55.2	77.2	112.4	165
Viscosity Index	170	190	190	196	210	226	239	285
Pour Point °C	-30	-42	-42	-39	-38	-37	-35	-33
Flash Point °C	265	265	265	265	265	265	265	260
Density @ 15°C	0.5	1.079	1.078	1.077	1.077	1.076	1.076	1.076
Total Acid Number, mg KOH/g	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Copper Strip Corrosion @ 100 °C for 24 hrs.	1b	1b	1b	1b	1b	1b	1b	1b
Rust Protection Sea Water	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
4 Ball EP Weld Load Test in kgs	>250	>250	>250	>250	>250	>250	>250	>315
Foam Tendency, SEQ-I	10/0	10/0	10/0	10/0	10/0	10/0	10/0	10/0

Additional Information: HD SYNTHGEAR EP is PAG contains Polyalkylene Glycol and is not mixable with mineral oils or most other PAO synthetic lubricants types, so please check compability before us. It is recommended that systems are thoroughly cleaned & flushed out before switching to HD SYNTHGEAR EP to achieve the maximum performance benefits.

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