

HD TECHGEAR EP (PAO-PolyAlphaOlefin /Ester Based)

DESCRIPTION: HD TECHGEAR EP are premium high performance fully synthetic gear oils specially developed for wind turbines and various types of enclosed industrial gears operating under normal to extremely heavy duty conditions. Formulated from water soluble PAO/Ester based (PolyAlphaOlefin) 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 and anti-foam additives. HD TECHGEAR EP 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 long lasting performance. PolyAlphaOlefin (PAO) 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 TECHGEAR EP is long life synthetic oils range for the lubrication of worm gears, Bevel Helical & Planetary gears, Helical gears, Power generation gear drives such as 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 PAO/Ester based (PolyAlphaOlefin) 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	100	150	220	320	460	680
Viscosity @ 40°C Cst	100	150	220	320	460	680
Viscosity @ 100°C Cst	14.75	22.2	30.4	40.6	54.1	75.5
Viscosity Index	152	152	154	168	180	182
Pour Point °C	-48	-46	-45	-42	-39	-39
Flash Point °C	240	240	240	250	250	250
Density @ 15°C	0.861	0.877	0.881	0.883	0.879	0.881
Total Acid Number, mg KOH/g	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
Rust Protection Sea Water	Pass	Pass	Pass	pass	Pass	Pass
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

Additional Information: While HD TECHGEAR EP is compatible with mineral oil-based products, it is recommended that systems are thoroughly cleaned out and flushed before switching to HD TECHGEAR EP to achieve the maximum performance benefits.

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