

HD EP GEARTECH WT (Main Gear-Box / Auxillary Gear Drives / Planetary Gear Box)

DESCRIPTION: HD GEARTECH WT 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, 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.

BENEFITS & FEATURES

- 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.

APPLICATION

- Recommended for the gearboxes in wind turbines of all sizes and capacities, especially for heavy loads and high shock loaded gear units, remotely located units and extreme high & low temperature environments.
- It is especially recommended for wind turbines 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 EP GEARTECH WT 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.

PROPERTIES

ISO GRADE	320
Viscosity @ 40°C Cst	320
Viscosity @ 100°C Cst	25
Viscosity Index	102
Pour Point	-15
Flash Point, °C	264
Density 60°F	0.917
4 Ball EP Weld Load Test in kgs	>250
Foam Tendency, SEQ-I	10/0
Copper Strip Corrosion @ 100 °C for 24 hrs.	1b
Rust Protection Sea Water	Pass
Total Acid Number, mg KOH/g	0.9

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

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