



Gulf GEARTEK SHD

**(Previously known as Gulf EP Lubricant
SHD) Premium Quality Synthetic Gear Oil**

Product Description

Gulf GEARTEK SHD series is a premium quality synthetic gear oils provides extra-long life, exceptional outstanding wear protection under severe operating conditions including shock loading. This series is formulated using advanced additive technology in combination with very high quality base oils that provides outstanding oxidation resistance and thermal properties, excellent low temperature fluidity and prolong oil life. It provides outstanding protection against scuffing & resistance against micro-pitting fatigue under wide operating temperature range and reduces friction & has potential for extended service life as compared to conventional industrial gear oils.

Features & Benefits

- Outstanding load carrying capability and micro-pitting performance which protect gears against scuffing & wear and enhance the equipment life, reduced maintenance costs and system efficiency
- Very High viscosity index provide excellent low temperature fluidity and effective lubrication over a wide temperature range
- Outstanding thermo-oxidative stability provides resistance against breakdown over long duration and high temperature operation which enables extended drain intervals over conventional industrial gear oils.
- Excellent resistance to rust & corrosion protection and water separation characteristics ensure trouble free operation at high temperatures and applications encountering water contamination
- Excellent air release properties and resistance against foaming
- Good seal and paint compatibility with a wide variety of seals and paints

Applications

- Recommended for wide range of Heavy-duty industrial enclosed gearboxes operating under severe load conditions, requiring enhanced micro-pitting resistance and wide temperature variations in various industries.
- Engineered for gearbox applications of Cement industries, Steel industries, Paper industries, Wind mills gearboxes, etc.
- Gearboxes requiring long life oil specially where high load, extreme temperature and pressure are prevalent.

Specifications, Approvals & Typical Properties

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Properties mentioned are typical only and minor variations, which do not affect product performance, are expected to arise in normal manufacturing processes. Please follow equipment manufacturer's recommendations for performance level and viscosity grade. The Safety Data Sheet for this product is available from your nearest Gulf Distributor. Please consult our local representative if any further information is required.

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ISO Viscosity Grade	150	220	320	460	680
Meets the following Specifications					
DIN 51517 Part 3 CLP, ANSI/AGMA 9005-F16, ISO 12925-1	X	X	X	X	X
Type CKD, IEC 61400-4					
Hansen Transmission NV, Winergy, Moventas, FAG Schaeffler	X	X	X	X	X
Has the following Approvals					
Flender Gear units (Rev. 16 for Helical, Bevel and Planetary Gear units)	X	X	X	X	X
ELECON	X	X	X	X	X
Hanson Industrial Gear Units	X	X	X	X	X
ZF ZFN-W-17-145 Rev. 5		X	X	X	
Typical Properties					
Test Parameters	Test Method	Typical Values			
Density @ 15°C, g/cc	ASTM D4052	0.8768	0.8850	0.8918	0.8990
Kinematic Viscosity @ 40 °C, cSt	ASTM D445	148.4	219.6	322.5	457.4
Kinematic Viscosity @ 100 °C, cSt	ASTM D445	20.41	27.82	37.46	48.90
Viscosity Index	ASTM D2270	160	164	166	167
Flash Point, °C	ASTM D92	222	216	224	212
Pour Point, °C	ASTM D97	-36	-36	-39	-39
Total Acid Number, mg KOH / g	ASTM D664	0.95	1.04	1.00	0.97
Copper Corrosion @ 100°C, 3 h	ASTM D130	1b	1b	1b	1b
FZG Load Carrying Capacity (A/8,3/90), FLS	DIN ISO 14635-1	14			

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