



Gulf EP Lubricant SHD

Super Heavy-duty Industrial Gear Oil

Product Description

Gulf EP Lubricant SHD series is an advanced super heavy duty industrial 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.

Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

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Specifications, Approvals & Typical Properties

ISO Viscosity Grade	150	220	320	460	680	
Meets the following Specifications						
DIN 51517 Part 3, ANSI/AGMA 9005-F16, ISO 12925-1 Type CKD, IEC 61400-4	X	X	X	X	X	
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	
Typical Properties						
Test Parameters	Test Method	Typical Values				
Density @ 15°C, g/cc	ASTM D4052	0.8768	0.8850	0.8918	0.8990	0.9054
Kinematic Viscosity @ 40 °C, cSt	ASTM D445	148.4	219.6	322.5	457.4	674.2
Kinematic Viscosity @ 100 °C, cSt	ASTM D445	20.41	27.82	37.46	48.90	65.30
Viscosity Index	ASTM D2270	160	164	166	167	169
Flash Point, °C	ASTM D92	222	216	224	212	208
Pour Point, °C	ASTM D97	-36	-36	-39	-39	-36
Total Acid Number, mg KOH / g	ASTM D664	0.95	1.04	1.00	0.97	0.93
Copper Corrosion @ 100°C, 3 h	ASTM D130	1b	1b	1b	1b	1b
FZG Load Carrying Capacity (A/8,3/90), FLS	DIN ISO 14635-1	14				

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