



## Gulf EP Lubricant SY

### Synthetic heavy-duty industrial gear oil

#### Product Description

**Gulf EP Lubricant SY** series are premium quality synthetic heavy duty industrial gear oils offering outstanding lubrication performance and load carrying capacity under severe operating conditions including shock loading. These are formulated from Polyalphaolefin (PAO) synthetic base stocks having exceptional oxidation resistance and thermal properties and excellent low temperature fluidity. The combination of naturally high viscosity index base stocks coupled with carefully selected additive technology provides excellent protection against scuffing and resistance against micro pitting fatigue under wide operating temperature range.

#### Features & Benefits

- Outstanding load carrying capability and micro-pitting performance protects gears against scuffing and wear leading to enhanced equipment life and reduced maintenance costs
- High viscosity index base stocks provide excellent low temperature fluidity and effective lubrication over a wide temperature range
- Superior thermo-oxidative stability provides enhanced system cleanliness and enables longer service intervals
- Low traction and enhanced lubricity helps provide extra energy efficiency
- Excellent resistance to rust and corrosion protection and good demulsibility ensures trouble free operation at high temperatures and applications encountering water contamination
- Good seal and paint compatibility with a wide variety of seals and paints

#### Applications

- Heavy-duty industrial enclosed gear boxes operating under severe conditions like high load, extreme temperatures and wide temperature ranges
- Filled for life systems
- Bearing and circulation systems where high temperatures are encountered

#### Specifications, Approvals & Typical Properties

ISO Viscosity Grade	68	100	150	220	320	460	680	1000	
Meets the following Specifications									
DIN 51517 Part 3, AISE(US Steel)224	X	X	X	X	X	X	X	X	
ISO 12925-1 Type CKD, David Brown S1.53.101(E), AGMA 9005 E-02	X	X	X	X	X	X	X	X	
Has the following Approval									
Siemens Revision 13 for Flender gear units				X	X	X	X		
Typical Properties									
Test Parameters	ASTM Method	Typical Values							
Viscosity @ 40 °C, cSt	D 445	67.8	100.3	150.3	220.6	320.6	462.0	685.2	951.8
Viscosity Index	D 2270	149	149	143	146	150	158	160	160
Flash Point, °C	D 92	276	242	246	250	252	258	262	266
Pour Point, °C	D 97	-36	-42	-39	-33	-30	-27	-24	-24
Density @ 15°C, Kg/l	D 1298	0.846	0.847	0.849	0.853	0.856	0.859	0.869	0.879
FZG, fail load stage	DIN 51354 Part II	-	>12	>12	>12	>12	>12	>12	>12
Rust Test	D 665A/B	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Copper Corrosion	D 130	1a	1a	1a	1a	1a	1a	1a	1a
Emulsion Test 30 minutes max @ 82 °C	D 1401	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

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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.

#### Gulf Oil International

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