

Gulf EP Lubricant HD

Heavy-duty industrial gear oil

Product Description

Gulf EP Lubricant HD series are high performance extreme pressure gear oils developed for lubrication of heavy duty industrial gears working under severe operating conditions. These are blended from high quality base stocks and sulphur-phosporous type extreme pressure additive system that gives excellent load carrying capability to provide protection against shock loading and wear. The high thermo-oxidative stability of the oil helps resist high temperature deposit formation and oil thickening. In addition, these oils also possess excellent water separation characteristics and offer resistance to foaming. These oils exceed the performance requirements of various industry specifications viz. DIN 51517 Part 3, ISO 12925-1 Type CKD, AGMA 9005 E-02, David Brown S1.53 101(E) and US Steel 224.

Features & Benefits

- Excellent load carrying capability protects gears against scuffing and wear and offers long equipment life and reduced maintenance costs
- High thermo-oxidative stability helps resist deposit formation, provides enhanced system cleanliness and enables longer service intervals
- Provides effective rust and corrosion protection to all gearbox components
- · Excellent demulsibility property enables trouble-free operation in conditions encountering water/ moisture

Applications

- Wide range of industrial spur, helical, bevel and steel-on-steel worm gears
- Heavy-duty industrial enclosed gears operating under heavy or shock loading conditions and requiring extreme pressure performance
- Journal and roller contact industrial bearings operating at low speeds and high loads
- · Suitable for splash, mist and circulating systems
- · Marine gear applications

Specifications, Approvals & Typical Properties

ISO Viscosity Grade			68	100	150	220	320	460	680	1000
Meets the following	Specifications									
DIN 51517 Part 3, ISO 12925-1 Type CKD, AGMA 9005 E-02,			Х	Х	Х	Х	Х	Х	Х	Х
David Brown S1.53 101(E)			Х	Х	Х	Х	Х	Х	Х	Х
US Steel 224		Х	Х	Х	Х	Х	Х	Х		
Typical Properties										
Test Parameters ASTM Metho		ASTM Method	Typical values							
Viscosity @ 40 °C, cSt		D 445	68.2	100.2	148.7	218.8	315.7	461.3	682.4	990.0
Viscosity Index		D 2270	98	97	97	96	95	95	91	90
Flash Point, °C		D 92	224	230	240	242	246	252	256	260
Pour Point, °C		D 97	-15	-15	-12	-12	-12	-9	-6	-3
Density @ 15°C, Kg/l		D 1298	0.884	0.889	0.893	0.897	0.901	0.905	0.909	0.925
FZG, fail load stage		DIN 51354 Part II	>12	>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	@ 54 oC	D 1401	Pass	-	-		-	-	-	-
30minute max	@ 82 oC		-	Pass						

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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.