



GL GEAR OILS

HEAVY DUTY INDUSTRIAL EP GEAR OILS

Description

Orelube GL Gear Oils are EP gear oils designed for industrial gear lubrication. Their superior oxidation and thermal stability will minimize viscosity increase and sludge formation at higher operating temperatures.

GL Gear Oils are formulated using highly-refined, hydrotreated, high VI paraffin base oils with a special additive package that helps to minimize the temperature rise in heavily-loaded rings and gear sets. Their high load carrying ability greatly reduces wear -- they meet or exceed a 60 lb Timken OK load test.

GL Gear Oils are non-corrosive to gear and bearing materials such as steel, copper, bronze, babbit or cadmium nickel. The lower viscosity grades have low pour points which make them suitable for use in gears and bearings exposed to winter weather.

Applications

GL Gear Oils are used in a wide variety of industrial and mobile equipment, enclosed gear systems, chain drives, sprockets, plain and roller bearings, slide guides, flexible couplings, cams and open chains.

They provide exceptional lubrication of enclosed gear drives and reducers from fractional horsepower gear motors to large high horsepower units on metal rolling mills and mine hoists with a wide variety of gears including spur, bevel, herringbone and worm.

They are recommended for the lubrication of industrial hypoid-type gears, for gears subjected to shock loading, for transmission gear cases and worm drive axles on mobile contractor-type equipment, open pit and underground mining machinery.

They can be used with bath, splash, circulating and spray-type lubrication systems.

GL Gear Oils exceed U.S. Steel 224 and American Gear Manufacturers Association (AGMA) 250.04 and 251.02 specification requirements.



| Typical Proper | ties |
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| Typical Floperiies | | | | | CONTRACT PAGE 100 AND ADDRESS | | | |
|--|-------------|--------------|---------------|---------------|-------------------------------|---------------|---------------|--|
| GL Gear | 68 | 100 | 150 | 220 | 320 | 460 | 680 | |
| ISO Grade | 68 | 100 | 150 | 220 | 320 | 460 | 680 | |
| AGMA# | 2EP | 3EP | 4EP | 5EP | 6EP | 7EP | 8EP | |
| Viscosity, ASTM D-445 cSt @ 40 C cSt @ 100 C | 64.8 8.3 | 99.6 11.1 | 145.3 14.3 | 215.1 18.6 | 315.2 23.9 | 455.4 30.4 | 644.5 36.2 | |
| Flash Point, F | 410 | 425 | 430 | 435 | 445 | 450 | 460 | |
| Pour Point, F | -25 | -20 | -15 | -10 | -5 | 0 | +5 | |
| Foam Test, ASTM D-892 Seq. 1, 2 and 3 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | |
| Rust Test, ASTM D-665 A and B | Pass | Pass | Pass | Pass | Pass | Pass | Pass | |
| Copper Corrosion, ASTM D-130 3 hrs @ 100 C | 1a | 1a | 1a | 1a | 1a | 1a | 1a | |
| 4-Ball EP, ASTM D-2783 Weld load, kg Load wear index, kg | 250 45 | 250 45 | 250 45 | 250 45 | 250 45 | 250 45 | 250 45 | |
| Timken EP Test, ASTM D-2782 OK Load, lbs | 60 | 60 | 60 | 60 | 60 | 60 | 60 | |
| 4-Ball Wear Test, ASTM D-4172 1200 rpm, 40 kg, 167 F, 1 hr scar diameter, mm | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | |
| FZG Gear Test, 12 stages | Pass | Pass | Pass | Pass | Pass | Pass | Pass | |

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