

## 4406 Synthetic Heavy Duty Industrial Gear Oil (PAG Based)

4406 synthetic heavy duty industrial gear oil (PAG based) is blended with synthetic base oil and compounding additives of extreme pressure and anti-wear and so on. It has outstanding viscosity-temperature performance and extreme pressure and anti-wear performance meeting lubrication requirements of various moderate/low speed heavy duty industrial gears. The product comprises several grades such as 100 220 320 680 and 1000 according to its kinematic viscosity at 40°C.

### Advantages

- ⊙ Outstanding viscosity-temperature performance
- ⊙ Outstanding low temperature fluidity ensuring normal startup and operation of gearbox in low temperature condition
- ⊙ Outstanding thermal resistance stability preventing oil from damage in high temperature condition
- ⊙ Good extreme pressure and anti-wear performance reducing wear of gearbox
- ⊙ Neither coke nor deposit after long time application in high temperature condition
- ⊙ Increasing efficiency reducing power consumption lowering wear prolonging service life and oil drain interval compared to mineral type gear oil and reducing repair costs and energy consumption

### Performance

The product meets the following specifications:

- ⊙ Q/SH303 172-2004 (2007)
- ⊙ Suitable for lubrication of various moderate/low speed heavy duty close type industrial gears and sliding/rolling bearings
- ⊙ Applied temperature range: -30°C~150°C for grade 100 220 and 320; -25°C~150°C for grade 680 and 1000

### Typical properties

Items	4406 synthetic heavy duty industrial gear oil (PAG based)				
	Grade 100	Grade 220	Grade 320	Grade 680	Grade 1000
Appearance	Transparent liquid of yellow to red brown				
Kinematic viscosity (40°C), mm <sup>2</sup> /s	101.5	225.3	330.5	696.5	1058.6
Viscosity index	188	210	215	238	250
Flash point (COC), °C	245	251	255	265	277
Pour point, °C	-45	-42	-40	-39	-32
Copper corrosion (100°C, 3h), level	2b				

### Precautions

- ⊙ Use seals made of NBR within 100°C and those of FKM or silicon rubber when temperature lasts high
- ⊙ Use epoxy resin or MPFR coating if industrial paint is not acceptable. Use oil level of glass or PA material