

ArChine Syngear PAO 460

Product Description

ArChine Syngear PAO 460 is made of purely synthetic base oil (PAO) and advanced additive technology which has excellent thermal and oxidative stability and superior load carrying ability, suitable for gears under harsh conditions especially for gears requiring resistance to micro pitting. It has excellent high temperature stability, detergency, low temperature liquidity and excellent lubrication characteristics.

Product Features

- Excellent thermal and oxidative stability and long oil change period
- Excellent lubrication characteristics and demulsibility
- Excellent high and low temperature performance, suitable for a wide range of operating temperatures
- Superior corrosion and rust protection
- High mechanical shear resistance
- Resistance to micro pitting
- Superior load-carrying ability
- Good compatibility with seal elements, mineral oils and nonmetal materials

Typical Properties

| Test Item | Test Method | ISO 460 |
|------------------------------------|----------------|---------|
| Viscosity | ASTM D-445 | |
| cSt @ 40°C | | 460 |
| cSt @ 100°C | | 54.1 |
| Viscosity Index | ASTM D-2270 | 184 |
| Pour point, °C | ASTM D-97 | -48 |
| Flash point, °C | ASTM D-92 | 234 |
| Density, Kg/L@15°C | | 0.86 |
| Total Acid Number, mg KOH/g | ASTM D-664 | 0.9 |
| Four-Ball Extreme Pressure Test | ASTM D-2783 | |
| Weld Load, kg | | 200 |
| Load-Wear Index | | 51 |
| FZG Micropitting | FVA Proc No.54 | 10 |
| Copper Strip Corrosion, 3hrs | ASTM D-130 | 1B |
| Rust Test, salt water | ASTM D-665 | Pass |
| Demulsibility Test, Free Water, ml | ASTM D-2711 | 84 |

| | | |
|-----------------------------------|-------------|------|
| Water separation, minute, 40/37/3 | ASTM D 1401 | 15 |
| Forming Tendency Seq. II, ml | ASTM D-892 | 20/0 |

* These values are not intended for use in preparing specifications.

Applications

- Lubricate gearboxes of wind-driven generator
- Lubricate heavy gearboxes and bearings under high temperature operation such as driving gearboxes of ball mill in power plant
- Lubricate driving gearboxes of vertical mill and turn kiln in cement plant
- Lubricate driving gearboxes of drum pulper in paper mill