

PETRONAS GEAR SYN OG SERIES

Supreme Performance Heavy Duty Industrial Open Gear Oil

PETRONAS Gear SYN OG Series are supreme performance industrial gear oils specially developed for large and heavily loaded open gears used in a wide variety of heavy industries like mining, sugar, power and steel processing plants.

Formulated with high quality selected synthetic base oils enhanced with advanced extreme pressure, anti-wear, anti-oxidant, anti-rust and anti-foam additives, PETRONAS Gear SYN OG oils provide excellent protection against gear scuffing and resistance to shock loading, excellent extreme pressure and anti-wear protection, reduced bulk oil temperatures and smooth operation of the gear drives.

Applications

PETRONAS Gear SYN OG Series are recommended for use in:

- sugar mill bearings
- Highly loaded slow speed roller bearing applications
- open gear applications where there are slush pans to accommodate open gear lubricants
- gear drives subjected to extreme heavy loads, low speeds and shock loading
- open gears which are operated under a wide range of different environmental conditions where water and solid contamination occurs

Features and Benefits

| Features | Benefits |
|---------------------------------------|---|
| Light Lubricant color | The lubricants light color prevents the need for gear cleaning prior to inspections, helping to reduce maintenance time and costs |
| Excellent extreme pressure protection | Excellent extreme pressure performance giving long gear life in severely loaded gear drives |
| Excellent anti-wear protection | Protects equipment components from excessive wear and provides longer bearing and equipment life |
| Excellent oxidation stability | Has excellent resistance to oxidation under high temperature and pressure |



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Technical Data Sheet

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| Features | Benefits |
|--|--|
| Excellent rust & corrosion protection | Inhibits the corrosion process that occurs in presence of water, improving equipment life |
| Very good water separability | Due to very good water separability the systems are protected from water degenerative effects, maintaining gear drives efficiency at required level and reducing maintenance costs |
| Excellent multi metal compatibility | Compatible with most metal alloys ensuring trouble free performance |
| Excellent seal and elastomer compatibility | Compatible with most seals and elastomers, which prevents oil leaks and contamination due to seal erosion |

Typical Properties

| Characteristic | Method | 3200 | 4000 | 6800 | 8000 | 12000 | 18000 | 24000 |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|
| Specific Gravity @15°C | ASTM D 4052 | 0,891 | 0,901 | 0,900 | 0,901 | 0,904 | 0,904 | 0,905 |
| Kinematic Viscosity at 40°C, cSt | ASTM D 445 | 3200 | 4000 | 6800 | 8000 | 12000 | 18000 | 24000 |
| Kinematic Viscosity at 100°C, cSt | ASTM D 445 | 181 | 210 | 293 | 322 | 448 | 550 | 850 |
| Viscosity Index, min | ASTM D 2270 | 165 | 166 | 167 | 166 | 178 | 174 | 210 |
| Flash Point, °C | ASTM D 92 | 210 | 214 | 214 | 220 | 230 | 230 | 240 |
| Pour Point, max °C | ASTM D 97 | -21 | -18 | -18 | -18 | -15 | -15 | -9 |
| TAN, mgKOH/g | ASTM D 664 | 0,49 | 0,49 | 0,49 | 0,49 | 0,49 | 0,49 | 0,49 |
| Copper Strip Corrosion, Visual | ASTM D130 | 1a |
| Foam Sequence I, mL | ASTM D892 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 |
| Foam Sequence II, mL | | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 |
| Foam Sequence III, mL | | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 |
| Weld Load, Kgf | ASTM D2783 | 620 | 620 | 620 | 620 | 620 | 620 | 800 |
| Timken OK Load, lbs | ASTM D2782 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| FZG, Stages Passed | ISO 14635-1 | >12 | >12 | >12 | >12 | >12 | >12 | >12 |

All technical data are provided for reference only / SS is available upon request including quality control limits

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Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water.

For further detail regarding storage, safe handling, and disposal of product, please refer to product SDS or contact us at: www.pli-petronas.com.

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