

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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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	1a	1a	1a	1a	1a	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, Kg	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.

Important Note

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