

PETRONAS GEAR SYN PGS Series

Synthetic Gear & Bearing Oil

GEAR SYN PGS Series Gear Lubricants are high performance products developed in cooperation with major gear manufacturers, designed primarily for industrial worm gear application, but may also be considered as a general-purpose gear lubricant for critical applications. These fluids are Polyalkylene glycol (PAG) synthetic based fluids that provide excellent thermal and oxidative stability, load carrying ability, and sludge-free performance over an extremely wide temperature range. In addition, these fluids have low foaming tendencies and good rust protection, even in salt-water environs.

Applications

- Worm gear applications.
- General-purpose Gear Lubricant.
- Other Applications requiring high temperature resistant lubricant

Compatibility

Seals: **GEAR SYN PGS** may be used with all common seal materials except leather.

Paints: High quality epoxy or red lead based paints should be used, as the synthetic base-stock tends to soften certain paints.

Flush: When changing over from a conventional mineral oil or grease, care should be taken to minimize contamination by decomposition products from the previous lubricant. Flush with a light mineral oil followed by a light petroleum solvent rinse and air dry.

Packaging

18 Liters Pail, 209 Liters Drum.

Customer Benefits

- Improved Efficiency:
 - Reduced power input
 - Less friction
 - Lower operating temperature
 - Less power consumption
 - Reduced wear and maintenance
 - Efficient power transmission
- Improved Efficiency:
 - Longer service life
 - No sludge formation
 - Negligible viscosity change
- High Viscosity Index:
 - Provides multi-grade viscosity-type performance Lower Pour points
 - Excellent fluidity at low temperature
- Excellent Corrosion Inhibition: Even in the presence of salt water

Customer Advice

For further assistance on product MSDS, recommendation or technical queries, please liaise with the regional Technical Services Engineer or contact HQ Technical Engineers.

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Product Typical Properties

Characteristics	Grade			
	PGS150	PGS220	PGS320	PGS460
Viscosity, cSt				
@40°C	150	220	320	400
@100°C	24.5	35.8	54.6	80.0
Viscosity Index	200	205	238	279
Specific Gravity, 15°C, g/cm ³	1.007	1.034	1.069	1.044
Pour Point (max.), °C	-35	-32	-30	-32
Flash Point (min.), °C	277	293	275	297
Rust Protection (ASTM D-665B)	Pass	Pass	Pass	Pass
FZG Gear Test, Final Pass Stage	11	12	12	12

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