

# 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 <sup>3</sup>	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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