

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 pails and 209 Liters drums

Customer Benefits

- Improved Efficiency:
 - Reduced power input
 - Less friction
 - •Lower operating temperature
 - •Less power consumption
 - •Reduced wear and maintenance
 - •Efficient power transmission
- Improved Thermal Stability:
 - Longer service live
 - 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

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Typical Properties

Characteristics	PGS 150	PGS 220	PGS 320
Viscosity, cSt			
@40°C	132	217	341
@100°C	25	36	57.9
Viscosity Index	223	216	240
Density @15.6°C, Kg/L	1.0-1.1	1.0-1.1	1.0-1.1
Pour Point, °C	-42	-37	-35
Flash Point, C.O.C., °C	270	280	280
Rust Protection (ASTM D-665B)	Pass	Pass	Pass
FZG Gear Test, Final Pass Stage	11	12	12

Characteristics	PGS 460	PGS 680	PGS 1000
Viscosity, cSt			
@40°C	408	688	1117
@100°C	71	118	167
Viscosity Index	253	274	274
Density @15.6°C, Kg/L	1.0-1.1	1.0-1.1	1.0-1.1
Pour Point, °C	-33	-32	-31
Flash Point , C.O.C., °C	280	280	280
Rust Protection (ASTM D-665A)	Pass	Pass	Pass
FZG Gear Test, Final Pass Stage	12	12	12

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.