

Technical Data Sheet

Texol Gearsyn™ PG Series

Synthetic gear oils

Product Description

Texol Gearsyn™ PG gear oils were developed for application in highly loaded gear and bearings even when subjected to high operating conditions.

- They feature an excellent oxidation stability (even at high temperatures)
- Outstanding viscosity-temperature stability and extremely high viscosity index without using VI improvers
- They are manufactured from high quality polyglycol base oils
- Texol Gearsyn™ PG synthetic gear oils are available in the viscosity grades 68 to 3000.

Applications and Uses

The excellent properties of Texol Gearsyn™ PG synthetic gear oils are especially evident in the lubrication of mechanically and thermally highly loaded friction surfaces.

They are especially suited for service in highly loaded enclosed gear drives (spur, helical, bevel and worm gears), the lubrication of rolling and sliding bearings in paper machines, calanders, kneaders, extruders and mills.

Sustained oil reservoir temperatures up to + 150°C, with short time exposure to peak temperatures up to +200°C.

Advantages

- Considerable decrease in maintenance costs due to a prolonged service life of lubricant and machine parts
- The good viscosity temperature behavior ensures the formation of a load resistant lubricating film on the friction surfaces over a wide temperature range thus offering an optimum wear protection.
- Critical mixed friction areas are easily coped with due to the efficiency of EP additives. These operating conditions prevail under extremely high loads.
- Excellent corrosion protection and good foaming behavior.
- Compatibility with non-ferrous metals is guaranteed by appropriate additives.
- in worm gears the coefficients of friction are reduced due to the polyglycol base oil and the wear rates are lowered owing to the optimum additive package.
- Texol Gearsyn™ PG is classified according to API GL5 with regards to seizure

TEXOL

Chemical

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Synthetic gear oils

Typical Properties

Property (Unit)	PG 68	PG 100	PG 150	PG 220	PG 320	PG 460	Method
Density at +15 °C	1048	1050	1056	1070	1074	1075	DIN 51757
Viscosity @40°C, cSt	68	100	150	220	320	460	DIN 51550
Viscosity @100°C, cSt	15	21	27	35	51	73	DIN 51550
ISO Viscosity Grade	68	100	150	220	320	460	DIN 51519
Viscosity Index	200	206	211	216	231	241	DIN ISO 2909
Flash Point, °C	270	280	280	290	290	290	DIN ISO 2592
Pour Point, °C	-45	-42	-36	-33	-30	-30	DIN ISO 3016
Four ball weld load, N	1600	1600	1600	1700	1800	1800	DIN 51350-02
Four ball wear test, mm				0.28			DIN 51350-03
FZG test (A/8.3/90)				>14			DIN 51354

Property (Unit)	PG680	PG 1000	PG 1500	PG 2000	PG 2500	PG 3000	Method
Density at +15 °C	1075	1074	1074	1073	1073	1072	DIN 51757
Viscosity @40°C, cSt	680	1000	1500	2000	2500	3000	DIN 51550
Viscosity @100°C, cSt	114	152	226	345	410	496	DIN 51550
ISO Viscosity Grade	680	1000	1500	2000	2500	3000	DIN 51519
Viscosity Index	261	275	300	320	385	395	DIN ISO 2909
Flash Point, °C	290	300	280	225	220	210	DIN ISO 2592
Pour Point, °C	-27	-24	-22	-12	-12	-10	DIN ISO 3016
Four ball weld load, N	1800	2000	2000	2200	2200	2200	DIN 51350-02
Four ball wear test, mm				0.28			DIN 51350-03
FZG test (A/8.3/90)				>12			DIN 51354

Notes for Use

- Texol Gearsyn™ PG synthetic gear oils are not compatible with mineral oils. Therefore a thorough cleaning of gearboxes, bearings and oil reservoirs are recommended.
- Condensation water may be absorbed without the danger of corrosion or a change in viscosity.
- Texol Gearsyn™ PG synthetic gear oils are compatible with seals, e.g. NBR, FPM.
- They are compatible with nearly all conventional one-component and two-component lacquers.
- Quality standard: Texol Gearsyn™ PG synthetic gear oils are CLP-PG oils and exceed the minimum requirements according to DIN 51517 for CLP gear oils