



ISO-9001 Registered Quality System.  
ISO-21469 Compliant.

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**PRODUCT DATA**

**LUBRIPLATE PGO 100% SYNTHETIC GEAR OILS**  
ISO VISCOSITY GRADES 150, 220, 320, 460 & 680

**DESCRIPTION**

The LUBRIPLATE PGO Series is comprised of 100% polyalkylene glycol (PAG) products which are designed to handle the most demanding operating conditions.

**APPLICATIONS**

The LUBRIPLATE PGO Gear Oils may be recommended for helical, bevel helical, planetary and worm gear reducers.

**ADVANTAGES**

These fluids deliver outstanding protection against micropitting, abrasion and wear. They deliver unsurpassed extreme pressure and anti-wear performance and provide outstanding thermal stability. LUBRIPLATE PGO Series are water-soluble and have a density higher than water; which if leaked or spilled into waterways will not create an oil sheen.

**RECOMMENDATIONS**

Materials compatibility with PAG synthetic fluids is an important consideration. Polyurethane based elastomers, leather, cork, paper and board should be avoided. Common seal and gasket materials are unaffected by the LUBRIPLATE PGO fluids. Nitrile Rubber (NBR), fluoro-Silicone or vinyl-methyl polysiloxane (Q) are recommended especially where high temperatures are involved. Ordinary industrial paints will soften in the presence of the LUBRIPLATE PGO Gear Oils. Internal gearbox surfaces should ideally be unpainted or coated with resistant materials, for example a resistant two-pack epoxy formulation. The LUBRIPLATE PGO Gear Oils are not compatible, nor should they be mixed, with mineral oil-based lubricants or polyalphaolefin (PAO) based fluids. When changing from a mineral oil or a PAO to one of the LUBRIPLATE PGO fluids, the following flushing procedure should be followed: The system should be run until the old oil is warm, then drain as fully as possible, particular attention being paid to reservoirs, lines etc., where oil may be trapped. The system should be cleaned of residual sludge. Flush the system with the minimum quantity of LUBRIPLATE PGO Fluid by operating under no load then drain the system while the fluid is warm. Repeat if necessary. Seals, etc., should be inspected and if deteriorated, then replaced. Seals previously exposed to other oils may shrink when exposed to LUBRIPLATE PGO Gear fluids, therefore, it may be advantageous to replace them, however, this is not mandatory. Careful inspection of the system for leaks will often suffice. It is useful to inspect the lubricant after one or two days in use to make sure that it is free of extraneous materials. Contamination with significant quantities of other lubricants can, in some cases, lead to sludging, foaming and other problems.

**Typical Test Data – See Back**

<b>PACKAGING AVAILABLE</b>	<b>PGO-150</b>	<b>PGO-220</b>
Carton, 4/1 Gallon Jugs	L0845-057	L0838-057
5 Gallon Pail	L0845-060	L0838-060
54 Gallon Drum	L0845-062	L0838-062
<b>PACKAGING AVAILABLE</b>	<b>PGO-320</b>	<b>PGO-460</b>
Carton, 4/1 Gallon Jugs	L0840-057	L0839-057
5 Gallon Pail	L0840-060	L0839-060
54 Gallon Drum	L0840-062	L0839-062
<b>PACKAGING AVAILABLE</b>	<b>PGO-680</b>	
Carton, 4/1 Gallon Jugs	L0846-057	
5 Gallon Pail	L0846-060	
54 Gallon Drum	L0846-062	



PROPERTY	TEST METHOD	TYPICAL RESULTS*				
		PGO-150	PGO-220	PGO-320	PGO-460	PGO-680
Viscosity cSt @ 40°C	ASTM D-445	150	227	334	477	725
Viscosity cSt @ 100°C	ASTM D-445	25	41.9	59.01	83	122.2
ISO Vis. Grade		150	220	320	460	680
Viscosity Index	ASTM D-2270	232	242	247	262	272
Pour Point	ASTM D-97	-47°C/ -53°F	-42°C/ -44°F	-35°C/ -31°F	-36°C/ -33°F	-33°C/ -27°F
Flash Point	ASTM D-92	>280°C	>280°C	>280°C	>280°C	>280°C
Density @ 15°C		1.057	1.057	1.056	1.067	1.072
TAN	ASTM D-974	0.2 max	0.2 max	0.2 max	0.2 max	0.2 max
FZG Load Stage A	DIN 51354	>12	>12	>12	>12	>12
FZG Load Stage		***	10	***	***	***
Micropitting @ 90°C Endurance		***	10	***	***	***
FZG Load Stage		***	10	***	***	***
Micropitting @ 60°C Endurance		***	10	***	***	***

*LUBRIPLATE PGO-FGL Gear Oils are considered to be inherently biodegradable according to test results from ASTM D-5864/OECD 301B.*

## STORAGE RECOMMENDATIONS

- ⇒ Products should be stored between 40°F-120°F
- ⇒ Products should be stored in a dry covered environment
- ⇒ Products should not be stored in warm, direct sunlight
- ⇒ Improper storage conditions can significantly alter the shelf life of the product. Such conditions would include temperature, moisture, open containers, etc.

