



## PRODUCT DATA SHEET



### EKO GEARLUB SYNTHETIC PG

Polyalkylene glycol (PAG) based synthetic industrial gear lubricants

#### DESCRIPTION

The EKO GEARLUB SYNTHETIC PG lubricant series includes full synthetic, polyalkylene glycol (PAG) based industrial gear lubricants, designed for closed gearboxes and circulating systems operating in a variety of industrial applications and in very hard conditions.

EKO GEARLUB SYNTHETIC PG lubricants are produced with the latest additives and with selected water-soluble polyalkylene glycols, providing excellent performance and protection against wear and micropitting. As a result, they exceed the latest specifications set by major gear manufacturers.

#### SPECIFICATIONS

DIN 51517 Part 3 CLP, David Brown Type G lubricant, SIEMENS specification for FLENDER gear units.

#### APPLICATIONS

- Suitable for all types of closed gearboxes operating under extreme thermal and mechanical stress.
- Recommended especially for the lubrication of worm gears, as the low friction coefficient of polyalkylene glycol decreases energy consumption and operating temperatures.
- Suitable for chains and conveyors.
- Suitable for rotary and reciprocating compressors.
- Suitable for furnaces and ovens.

#### ADVANTAGES

- Excellent protection from wear and micropitting.
- Their very high viscosity index and low pour point guarantee optimal performance at low temperatures and operation in a broad range of temperatures.

This data sheet provides basic information on the product as at the date of drafting. For further information regarding applications, please contact EKO ABEE Technical Support, tel. +30 210 5509 511 and +30 210 7725 418. Advice on safe handling is provided in the Safety Data Sheet.



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### ADVANTAGES

- High resistance to oxidation and thermal breakdown.
- Excellent anti-corrosion and anti-rust protection.
- Suitable for long oil drain intervals and filled-for-life gearbox applications.
- No negative effects on the most common elastomers and seals used in the industry.

### TYPICAL CHARACTERISTICS

Properties	Methods	Units	EKO GEARLUB SYNTHETIC PG 150	EKO GEARLUB SYNTHETIC PG 220	EKO GEARLUB SYNTHETIC PG 320
ISO Viscosity Grade	-	-	150	220	320
Kinematic Viscosity at 40°C	ASTM D445	cSt	150	226	310
Kinematic Viscosity at 100°C	ASTM D445	cSt	25	41.8	56.0
Viscosity Index (VI)	ASTM D2270	-	232	242	252
Density at 15°C	ASTM D4052	g/ml	1.057	1.057	1.058
Foaming characteristics, Seq. I Tendency/Stability	ASTM D892	ml	0/0	0/0	0/0
Pour Point	ASTMD5950	°C	-47	-42	-39
Flash Point	ASTM D92	°C	284	284	282
Copper Corrosion	ASTM D130	-	1a	1a	1a
FZG A/8,3/90	DIN 51354-2	Fail Load Stage	>12	>12	>12
FZG scuffing test, A/16,6/90	ISO 14635-1 / ASTM D51354	Fail Load Stage	>12	>12	>12
FZG Micropitting test at 90°C, Damage load stage	FVA54/7	Stage/ Rating	>10/High	>10/High	>10/High

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### TYPICAL CHARACTERISTICS

Properties	Methods	Units	EKO GEARLUB SYNTHETIC PG 460	EKO GEARLUB SYNTHETIC PG 680	EKO GEARLUB SYNTHETIC PG 1000
ISO Viscosity Grade	-	-	460	680	1000
Kinematic Viscosity at 40°C	ASTM D445	cSt	477	724	1000
Kinematic Viscosity at 100°C	ASTM D445	cSt	82.8	122.4	164
Viscosity Index (VI)	ASTM D2270	-	262	272	284
Density at 15°C	ASTM D4052	g/ml	1.067	1.072	1.089
Foaming characteristics, Seq. I Tendency/Stability	ASTM D892	ml	0/0	0/0	0/0
Pour Point	ASTMD5950	°C	-36	-33	-30
Flash Point	ASTM D92	°C	284	287	296
Copper Corrosion	ASTM D130	-	1a	1a	1a
FZG A/8,3/90	DIN 51354-2	Fail Load Stage	>12	>12	>12
FZG scuffing test, A/16,6/90	ISO 14635-1 / ASTM D51354	Fail Load Stage	>12	>12	>12
FZG Micropitting test at 90°C, Damage load stage	FVA54/7	Stage/ Rating	>10/High	>10/High	>10/High

### SPECIAL INSTRUCTIONS

The lubricants of the EKO GEARLUB SYNTHETIC PG series are not compatible with polyalphaolefins, mineral oils and esters.

Avoid contact of EKO GEARLUB SYNTHETIC PG lubricants with polyurethane elastomers and materials such as paper, cork and skin.

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### **SPECIAL INSTRUCTIONS**

Common seal and gasket materials are unaffected by EKO GEARLUB SYNTHETIC PG lubricants. NBR, Fluoro-silicone and vinyl-methyl polysiloxane (Q) are recommended, especially in high temperature applications. Conventional paints used in the industry soften when in contact with the EKO GEARLUB SYNTHETIC PG series lubricants and, therefore, gearbox internal surfaces must not be painted or must have resistant coating.

### **HEALTH AND SAFETY**

Protect the environment while disposing of used product. Used lubricants should be collected at specific points to ensure they do not pollute the environment. Do not mix with solvents, brake fluids, antifreeze fluids and water, to allow for proper handling.

Issue 4, 5 April 2018

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