



PRODUCT DATA SHEET

EKO GEARLUB SYNTHETIC

Polyalphaolefin (PAO) based synthetic industrial gear lubricants

DESCRIPTION

The EKO GEARLUB SYNTHETIC lubricant series includes premium performance, full-synthetic industrial gear lubricants based on polyalphaolefin (PAO) base stocks, especially designed for industrial gearboxes and circulating systems operating in applications with very high or low temperatures and very heavy loads.

SPECIFICATIONS

DIN 51517 PART 3 CLP-HC, US STEEL 224, FLENDER AG, ISO 12925-1 CKD.

APPLICATIONS

- Industrial and marine applications, characterized by heavy loads and extreme operating temperatures, where conventional, mineral industrial gear oils do not provide a satisfactory lifespan.
- Applications with very high costs of oil draining and of maintaining and replacing the equipment.
- Applications in which the same lubricant remains in the gearbox throughout its entire operational life (filled for life), including worm gear applications.

ADVANTAGES

- Excellent protection from oxidation and thermal breakdown, providing a longer lifespan for the lubricant at high temperatures than other, mineral-based lubricants, and highly reliable equipment operation.
- Its high viscosity index guarantees optimal lubricant performance at low temperatures and the conservation of an adequate lubricating membrane at high temperatures.
- High load-carrying capacity, resulting in optimal equipment protection from wear and micropitting, longer oil drain intervals and, ultimately, a reduction in maintenance costs.



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TYPICAL CHARACTERISTICS

Properties	ASTM Methods	Units	EKO GEARLUB			
			SYNTHETIC 68	SYNTHETIC 100	SYNTHETIC 150	SYNTHETIC 220
ISO Viscosity Grade	-	-	68	100	150	220
Density, 15°C	D4052	g/ml	0.825	0.832	0.840	0.845
Kinematic Viscosity, 40°C	D445	cSt	68	100	150	220
Kinematic Viscosity, 100°C	D445	cSt	11.8	14.2	18.2	31.0
Viscosity Index (VI)	D2270	-	173	150	154	185
Pour Point	D5950	°C	-42	-42	-39	-39
Flash Point, COC	D92	°C	236	252	264	272
FZG scuffing test, A/16.6/90	DIN 51534 mod	Fail Stage	>12	>12	>12	>12
Properties	ASTM Methods	Units	SYNTHETIC 320	SYNTHETIC 460	SYNTHETIC 680	SYNTHETIC 1000
ISO Viscosity Grade	-	-	320	460	680	1000
Density, 15°C	D4052	g/ml	0.854	0.865	0.868	0.872
Kinematic Viscosity, 40°C	D445	cSt	320	460	680	1000
Kinematic Viscosity, 100°C	D445	cSt	40.8	52.5	72.5	94.9
Viscosity Index (VI)	D2270	-	183	185	185	184
Pour Point	D5950	°C	-36	-36	-33	-33
Flash Point, COC	D92	°C	274	280	280	282
FZG scuffing test, A/16.6/90	DIN 51534 mod	Fail Stage	>12	>12	>12	>12

SPECIAL INSTRUCTIONS

The EKO GEARLUB SYNTHETIC oil series is compatible with mineral-based industrial gear oils. However, mixing EKO GEARLUB SYNTHETIC oils with mineral-based industrial gear oils reduces oil performance.

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.

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