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 III CLP-HC, US STEEL 224, FLENDER AG, ISO 6743/6 Type 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.

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ADVANTAGES

- 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.
- Excellent compatibility with all common gearbox seals.

TYPICAL CHARACTERISTICS

			EKO GEARLUB SYNTHETIC			
Properties	**Methods**	**Units**	**68**	**100**	**150**	**220**
ISO Viscosity Grade	-	-	68	100	150	220
Kinematic Viscosity at 40°C	ASTM D 445	cSt	67.6	100.1	150.4	218.5
Kinematic Viscosity at 100°C	ASTM D 445	cSt	12	14.6	20.1	31.2
Viscosity Index (VI)	ASTM D 2270	-	175	150	154	185
Density at 15°C	ASTM D 4052	g/ml	0.825	0.833	0.845	0.847
Foaming characteristics, Tendency/ Stability, Seq. I,II,III	ASTM D 892	ml	0/0	0/0	0/0	0/0
Pour Point	ASTM D 5950	°C	-45	-42	-41	-39
Flash Point	ASTM D 92	°C	235	250	250	270
FZG test, A/8,3/90	DIN 51534 -2	Fail Stage	>12	>12	>12	>12
FZG Micropitting test at 90°C, Damage load stage	FVA54/7	Stage/ Rating	-	-	>10/High	>10/High

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Properties	Methods	Units	320	460	680	1000
ISO Viscosity Grade	-	-	320	460	680	1000
Kinematic Viscosity at 40°C	ASTM D 445	cSt	322.2	460.4	678.2	996.3
Kinematic Viscosity at 100°C	ASTM D 445	cSt	41.6	53.6	73.9	95.5
Viscosity Index (VI)	ASTM D 2270	-	183	185	186	185
Density at 15°C	ASTM D 4052	g/ml	0.855	0.868	0.870	0.872
Foaming characteristics, Tendency/ Stability, Seq. I,II,III	ASTM D 892	ml	0/0	0/0	0/0	0/0
Pour Point	ASTM D 5950	°C	-39	-36	-36	-36
Flash Point	ASTM D 92	°C	275	280	282	283
FZG test, A/8,3/90	DIN 51534 -2	Fail Stage	>12	>12	>12	>12
FZG Micropitting test at 90°C, Damage load stage	FVA54/7	Stage/ Rating	>10/High	>10/High	>10/High	>10/High

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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