



PRODUCT DATA SHEET



EKO GEARLUB Industrial gear oils

DESCRIPTION

EKO GEARLUB is a series of premium mineral-based lubricants, suitable for industrial applications where extreme-pressure (EP) additives are required. Use to lubricate industrial gearboxes, including worm gears and hypoid gears, in applications where operating temperature can reach 100°C.

EKO GEARLUB gear oils are suitable for the lubrication of ball bearings and friction-type bearings, provided the metals are not affected by EP additives.

SPECIFICATIONS

DIN 51517 PART 3 CLP, DAVID BROWN S1.53.101 (E), AIST 224, AGMA 9005-E02 (EP).

APPLICATIONS

- Suitable for a broad range of industrial and marine applications requiring industrial gear lubricants with EP additives.
- Suitable for heavy-load gearboxes, including worm gears and hypoid gears, and for gearboxes operating in shock load applications.

ADVANTAGES

- Its excellent heavy-load and shock-load carrying capacity reduces wear in gears and bearings, leading to less non-operating periods and lower repair and maintenance costs.
- Its outstanding resistance to oxidation at high temperatures maintains lubricant viscosity and minimizes deposits, increasing gear cleanliness and lifespan of lubricant.



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ADVANTAGES

- Effective anti-rust and anti-corrosion protection that leads to reduced maintenance costs.
- Excellent water separation and foam resistance, providing optimal lubrication and smooth equipment operation.

TYPICAL CHARACTERISTICS

Properties	Methods	Units	EKO GEARLUB 68	EKO GEARLUB 100	EKO GEARLUB 150	EKO GEARLUB 220
ISO Viscosity Grade		-	68	100	150	220
Kinematic viscosity at 40°C	ASTM D 445	cSt	68	100	150	220
Viscosity index (VI)	ASTM D 2270	-	99	99	98	98
Density at 15°C	ASTM D 4052	g/ml	0.888	0.889	0.896	0.898
Pour Point	ASTM D 5950	°C	-30	-27	-27	-27
Flash Point	ASTM D 92	°C	226	234	240	242
Foaming characteristics, Tendency/ Stability, Seq. I,II,III	ASTM D 892	ml	0/0	0/0	0/0	0/0
FZG A/8.3/90, Load Stage	ISO 14635-1	Failure Load Stage	12+	12+	12+	12+
4-Ball EP test, weld load, min	ASTM D2783	kg	250	250	250	250



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TYPICAL CHARACTERISTICS

Properties	Methods	Units	EKO GEARLUB 320	EKO GEARLUB 460	EKO GEARLUB 680	EKO GEARLUB 1000
ISO Viscosity Grade		-	320	460	680	1000
Kinematic viscosity at 40°C	ASTM D 445	cSt	320	460	680	1000
Viscosity index (VI)	ASTM D 2270	-	97	95	94	91
Density at 15°C	ASTM D 4052	g/ml	0.902	0.903	0.912	0.920
Pour Point	ASTM D 5950	°C	-15	-12	-9	-9
Flash Point	ASTM D 92	°C	252	264	276	282
Foaming characteristics, Tendency/ Stability Seq. I,II,III	ASTM D 892	ml	0/0	0/0	0/0	0/0
FZG A/8.3/90, Load Stage	ISO 14635-1	Failure Load Stage	12+	12+	12+	12+
4-Ball EP test, weld load, min	ASTM D2783	kg	250	250	250	250

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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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.