Product information

BIO-Gear Oils SE - series

KAJO-BIO-Gear Oils SE are environmentally friendly gear oils, made of fully saturated synthetic esters, which are easily biodegradable for all applications where a gear oil CLP according to DIN 51 517, part 3, is stipulated. An environmentally friendly additivation was developed to increase aging stability, corrosion protection and lubricating properties.

KAJO-BIO-Gear Oils SE are well mixable with mineral oils and water-insoluble. However, mixtures with mineral oils are to be avoided as this may affect the performance. Manufacturers' instructions have to be adhered to. In general, a limit of 2 % is specified.

Regarding the sealing selection, the temperature is of decisive importance, so that we advise to confer with the sealing manufacturer or our technical service. Seals, based on FKM/FPM and AU/EU are generally suitable.

Practical advantages:
KAJO-BIO-Gear Oils SE were developed for applications in the field of industrial gears, where leakages and with it pollutions of the environment can occur.

KAJO-BIO-Gear Oils SE have proved to be very efficient with lubricating chains and ropes.

KAJO-BIO-Gear Oils SE are classified in water hazardous class 1, according to WRA/VwVwS (05/99).

Specific values:

Properties	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**	**Norm**
ISO-VG class	68	100	150	220	320	460	
Viscosity (mm^2/s) at 0° C at 40° C at 100° C	 476 68 12,8	 750 100 17,4	 1150 150 25,5	 1990 220 30,5	 3200 320 43	 > 5000 460 52,5	DIN EN ISO 3104
Viscosity index	> 190	> 170	> 170	>170	> 170	> 170	DIN ISO 2909
Density (kg/m^3) at 15° C	920	960	960	965	970	975	DIN EN ISO 12 185
Pour point	<-30	<-30	<-30	<-24	<-15	<-9	ASTM D 97
Flash point	Typ. 230	> 250	> 250	> 250	> 250	> 250	DIN EN ISO 2592
FZG test A/8, 3/90	> 12	> 12	> 12	> 12	> 12	> 12	DIN 51 354-2
CU-corrosion	1	1	1	1	1	1	EN ISO 2160
Steel corrosion	pass	pass	pass	pass	pass	pass	DIN ISO 7120
Operation temperature from/to (° C)	-15/90	-10/90	-5/90	-5/90	-5/100	0/100	
Iodine Number	< 1	< 1	< 1	< 1	< 1	< 1	DIN EN 14111

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All ratings are average values and are subject to production-related variations.

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