

General Recommended Lubricants

for Gear Unit Series
FZ, KS, CMG, DW, SG, VG, ZS-I, ZS-C, ZS-E

Recommended Lubricants Mineral Oil

Identification according to (ISO VG DIN 51519)	Viscosity				
Mineral oil CLP 220	VG 220	Castrol Alpha EP 220	Castrol Alpha EP 220	Mobilgear 600 XP 220	Shell Omala S2 GX 220
Roller bearing grease K-3k		Castrol Spheerol AP 3	Castrol Spheerol AP 3	Unirex N 3	Shell Gadus S2 V100 3

Recommended Lubricants Synthetic Oil

Identification according to ISO VG DIN 51519	Viscosity				
Synthetic oil CLP HC Base: Poly- α -olefin (PAO)	VG 220	Castrol Optigear Synthetic X 220	BP Enersyn EP-XF 220	SHC 630	Shell Omala S4 GXV 220
Synthetic oil CLP PG Base: Polyglycol (PG)	VG 220	Castrol Tribol 800/220	BP Enersyn SG-XP 220	Glygoyle 30	Shell Omala S4 WE 220
Roller bearing grease		Castrol Tribol GR XT 2 HT	Castrol Tribol GR XT 2 HT	Castrol Tribol GR XT 2 HT	Castrol Tribol GR XT 2 HT

Recommended Lubricants Food Industry Oil

	Viscosity				
Food industry oil	VG 220	Eural Gear 220	Optileb GT 220	Cassida Fluid GL 220	Klüber Oil 4UH1 220 N
Roller bearing grease		TUNAP TUNGREASE CSH 2	TUNAP TUNGREASE CSH 2	TUNAP TUNGREASE CSH 2	Paraliq GA 343



The gearbox must always be filled with the previously used oil when changing the oil. Especially synthetic oils on PG base may not be mixed with mineral oils or other synthetic oils. When changing from mineral oil to synthetic oil on PG base, the gearbox must be rinsed thoroughly with the new oil type!



Oil change intervals, oil quantities and procedure when changing the oil see in the operating and maintenance manual.

Recommended Lubricants Mineral Oil

Identification according to ISO VG DIN 51519	Viscosity				
Mineral oil CLP CC	VG 220	Staroil G 220	Eco Gear 220 M	Carter XEP 220	RENOLIN CLP 220
Roller bearing grease			Multi purpose grease L 3	Multis EP 3	

Recommended Lubricants Synthetic Oil

Identification according to ISO VG DIN 51519	Viscosity			
Synthetic oil CLP HC / PG	VG 220	Berusrsynth EP 220 Base: Polyglycol (PG)	Eco Gear 220 S Base: Poly- α -Olefin (PAO)	Carter SY 220 Base: Polyglycol (PG) Carter SH 220 Base: Poly- α -Olefin (PAO)

Recommended Lubricants Food Industry Oil

	Viscosity			
Food industry oil	VG 220	Berusrsynth 220 H1 Base: Poly- α -Olefin (PAO)	Ecoleb 220 FG Base: Poly- α -Olefin (PAO)	Nevastane XSH 220 Base: Poly- α -Olefin (PAO)



The use of other lubricants must be authorized by the company Knödler. Requests this, please contact engineering@knoedler-getriebe.de.

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