

Klübersynth PEG 46

Special greases for the lubrication of enclosed gear drives



Benefits for your application

- The good wear protection of both the gears and the rolling bearings ensures a long service life of the components
- The excellent viscosity-temperature behaviour supports the formation of a sufficient lubricating film even at elevated and high temperatures
- Much longer service life than mineral oils due the excellent ageing und oxidation stability of the synthetic base oil used in Klübersynth PEG 46 greases: Thus maintenance intervals can be extended and in certain cases even lifetime lubrication is possible
- The excellent friction behaviour of the polyglycol base oil reduces power losses and improves efficiency

Description

Klübersynth PEG 46 special greases are formulated from a polyglycol base oil and a lithium thickener, available in NLGI grades 00 and 1.

Application

Klübersynth PEG 46 greases were developed especially for the lubrication of spur gears, bevel gears, planetary gears and worm gears with material pairings steel/steel or steel/brass in small enclosed gear drives. Klübersynth PEG 46 greases can also be used for the lubrication of ball and roller guides, rolling and plain bearings as well as toothed couplings.

Application notes

Immersion lubrication of gears operating at circumferential speeds up to approx. 10 m/s is possible if NLGI grade 00 is used. Sufficient heat dissipation is essential. Depending on the operating conditions higher circumferential speeds are possible. The dynamic stresses of design elements made of aluminium or aluminium alloys may lead to increased wear. If necessary, wear tests should be carried out.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klübersynth PEG 46-121	Klübersynth PEG 46-1200
Can 1 kg	+	+
Bucket 25 kg	+	+
Drum 180 kg	+	+

Product data	Klübersynth PEG 46-121	Klübersynth PEG 46-1200
Article number	027041	027042
NLGI grade, DIN 51818	1	00
Lower service temperature	-50 °C / -58 °F	-50 °C / -58 °F
Upper service temperature	120 °C / 248 °F	120 °C / 248 °F
Colour space	brown	brown
Texture	homogeneous	homogeneous
Density at 20 °C	approx. 0.98 g/cm ³	approx. 0.99 g/cm ³
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	340 x 0.1 mm	430 x 0.1 mm



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Worked penetration, DIN ISO 2137, 25 °C, lower limit value	310 x 0.1 mm	400 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 120 mm ² /s	approx. 120 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 20 mm ² /s	approx. 20 mm ² /s
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree	1 - 100 corrosion degree
Drop point, DIN ISO 2176, IP 396	>= 180 °C	>= 160 °C
FZG scuffing test, based on DIN ISO 14635, A/2,76/50, scuffing load stage	> 12	> 12
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months	24 months

Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

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