

Klübersynth GE 46-1200

Synthetic Long-Term Gear Grease



Benefits for your application

- **Synthetic long-term fluid gear grease**
- **Wide temperature range**
- **Protects effectively against corrosion**
- **Does not contain lead or solid lubricants**
- **High load-carrying capacity**
- **Offers excellent protection against wear**

Description

Klübersynth GE 46-1200 is a synthetic long-term gear grease suitable for a wide temperature range. It does not contain lead or solid lubricants, has a high load-carrying capacity and offers excellent protection against wear and corrosion.

small gears. The operating temperature range of Klübersynth GE 46-1200 for immersion lubrication is between – 30 °C and 120 °C. Adequate lubrication properties are ensured down to –50 °C.

Application

Klübersynth GE 46-1200 was developed especially for the lubrication of spur gears, bevel gears and worm gears with material pairings steel/steel (e.g. gear motors, small gears, gears in power tools). Furthermore, Klübersynth GE 46-1200 can also be used for the lubrication of ball and roller guides, rolling and sliding bearings as well as toothed couplings. The dynamic stresses (sliding speed and high loads) the contact surfaces of design elements made of aluminium or aluminium alloys are exposed to may lead to increased wear. If necessary, wear tests should be carried out.

Compatibility with elastomers 72 NBR 902, 100 °C, 168 hrs:

Change in volume [%]	< = 3
Change in hardness [Shore A] approx	approx. –3

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.

Application notes

Immersion lubrication of gears operating at circumferential speeds up to approx. 8 m/s or greasing of the tooth flanks of

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



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Product data	Klübersynth GE 46-1200
Article number	027035
NLGI grade, DIN 51818	00
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	430 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	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
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 20 mm ² /s
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ ; equipment:rotational viscometer	<= 2 000 mPas
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree
Drop point, DIN ISO 2176	>= 160 °C
Colour space	brown
Density at 20 °C	approx. 0.99 g/cm ³
FZG scuffing test, DIN ISO 14635-1, A/8.3/90, change in weight	< 0.2 mg/kWh
FZG scuffing test, DIN ISO 14635-1, A/8.3/90, scuffing load stage	> 12
Texture	homogeneous
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months

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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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