Klübersynth GE 14-151

Special grease for small gears subject to high loads

Benefits for your application

- **special grease for highly loaded small gears**
- **wide service temperature range**
- **good wear protection**
- **high scuffing load capacity**
- **very good protection against tribocorrosion**

Description

Klübersynth GE 14-151 is a special grease based on synthetic hydro-carbon oil, ester oil and aluminium complex soap. It has a wide service temperature range, good wear protection properties and a high scuffing load capacity.

Application

You can use Klübersynth GE 14-151 for the lubrication of toothed wheels, bearings, joints and slideways in small gears subject to high loads, e.g. in power tools. The high scuffing load capacity and the good backflow behaviour make it possible to use the product in gears with a high sliding percentage. Depending on temperature, load and sliding speed, the grease can be used on steel/steel, steel/ aluminium and aluminium/ aluminium components. Additionally, Klübersynth GE 14-151 offers excellent wear protection and smooth running when used for lubricating trapezoidal and ball-and-screw spindles.

Application notes

This grease can be used in gears operating at a peripheral speed of approx. 10 m/s with a quasi complete fill of the gear housing. Peripheral speeds up to 20 m/s are possible in case of short-term or intermittent operation. Tooth flank lubrication allows a speed of 3 m/s. The optimized oil separation behaviour makes it possible to use the grease also in gears which are not oil-tight.

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 GE 14-151
Can 1 kg	+
Bucket 25 kg	+
Drum 180 kg	+

Product data	Klübersynth GE 14-151
Article number	012119
Colour space	yellow
Texture	homogeneous
Texture	fibrous
Lower service temperature	-35 °C / -31 °F
Upper service temperature	140 °C / 284 °F
Density at 20 °C	approx. 0.93 g/cm³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	320 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	350 x 0.1 mm

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Product data	Klübersynth GE 14-151
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 170 mm²/s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 20 mm²/s
Drop point, DIN ISO 2176, IP 396	>= 200 °C
Testing of lubricating greases on FAG FE9 rolling bearing tester, DIN 51821 pt. 02, speed: 6000 min-1, axial load: 1500 N, temperature: 140 °C, service life F50:	>= 150 h
Anti-brinelling test, acc. to SNR FEB 2, frequency 24 Hz, deflection 3, load 8000 N, 50 h at 20 °C, wear	approx. 5 mg
Four-ball tester, welding load, DIN 51350 pt. 04	>= 4 000 N
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	12 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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