

Klübersynth EL 42-32

Low-temperature lubricating grease with solid lubricant



Benefits for your application

- Wide service temperature range for a variety of applications
- Excellent load-carrying capacity
- Low breakaway torques even at low temperatures
- Reliable lubrication even at high temperatures, as the product does not become pasty

Description

Klübersynth EL 42-32 is a dynamically light, fully synthetic lubricating grease. The service temperature range is approx. – 50 °C to 150 °C. In contrast to conventional greases, Klübersynth EL 42-32 does not become pasty under thermal load, and its flow limit is not increased. Instead, this grease becomes a little softer, thus preventing wear particles and dust from making the lubricant pasty. Lubricity is ensured for a longer period. The product's good ageing resistance and its excellent corrosion and wear protection make it an ideal long-term and lifetime lubricant. Machine elements lubricated with Klübersynth EL 42-32 achieve very low starting and running torques even at very low temperatures.

Application

Owing to its excellent low-temperature characteristics, Klübersynth EL 42-32 is the preferred product for metal components in the automotive industry. It reduces abrasive sliding wear and extends the life of machine elements which operate in the mixed friction regime and are subject to shocks

and vibrations. Klübersynth EL 42-32 is also used in helical splines, pinion bearings and sleeves with lubricating pockets used in starters. It meets the Bosch standard N28 FT1022-001 (formerly VS 18036-Ft). Good results were also obtained on threaded spindles of actuators.

Application notes

Apply Klübersynth EL 42-32 by brush or spatula, or with conventional metering systems.

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 EL 42-32
Can 1 kg	+
Bucket 25 kg	+
Bucket 50 kg	+

Product data	Klübersynth EL 42-32
Article number	004213
Lower service temperature	-50 °C / -58 °F
Upper service temperature	150 °C / 302 °F
Texture	short-fibred
Texture	homogeneous
Colour space	black
Density at 20 °C	approx. 0.96 g/cm ³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm



Klübersynth EL 42-32

Low-temperature lubricating grease with solid lubricant

Product data	Klübersynth EL 42-32
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 25 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 5 mm ² /s
NLGI grade, DIN 51818	2
Copper corrosion, DIN 51811, (lubricating grease), 24h/120 °C	1 - 120 corrosion degree
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Flow pressure of lubricating greases, DIN 51805, test temperature: -50 °C	<= 1 400 mbar
Oil separation, ASTM D 6184 [FTMS 791 C 321], after 30 h/100 °C	<= 6 % by weight
Drop point, DIN ISO 2176, IP 396	>= 180 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	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.

Klüber Lubrication München SE & Co. KG / Geisenhausenerstraße 7 / 81379 München / Germany / phone +49 89 7876-0 / fax +49 89 7876-333.

The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

Publisher and Copyright: Klüber Lubrication München SE & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München SE & Co. KG and if source is indicated and voucher copy is forwarded.