

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**
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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.

Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry, frost-free place.

Oil may separate and float on the grease after a longer storage period. Stirring the product will restore its homogeneous texture.

Pack sizes

1 kg can
25 kg bucket
50 kg bucket

Material Safety Data Sheets

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



Klübersynth® EL 42-32

Low-temperature lubricating grease with solid lubricant

Product data	Klübersynth EL 42-32
Colour	black
Texture	homogeneous, short-fibred
Service temperature range* [°C] approx.	-50 to 150
Density at 20 °C, [g/cm ³]	0.96
Drop point, DIN ISO 2176, [°C]	> 180
Worked penetration, at 25 °C, DIN ISO 2137, [0.1 mm]	265 - 295
Consistency grade, DIN 51 805, NLGI	2
Anticorrosion properties, DIN 51 802, Emcor test, corrosion rating	≤1
Copper corrosion, DIN 51 811, after 24 h/120 °C, corrosion rating	1 – 120
Oil separation, FTMS 791 C-321.3, after 30 h/100 °C, [% by wt.]	< 6
Base oil viscosity, DIN 51 562 at 40 °C, [mm ² /s], approx.	25
at 100 °C, [mm ² /s], approx.	5
Flow pressure, DIN 51 805 at -50 °C, [mbar]	≤ 1 400

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

Lubrication is our world

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www.klueber.com

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