

Klübersynth® LP 42-32

Low-temperature grease with solid lubricant



Description

Klübersynth LP 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 LP 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 LP 42-32, achieve very low starting and running torques even at extremely low temperatures.

Application

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

Klübersynth LP 42-32 is used in helical splines, pinion bearings and sleeves with lubricating pockets and planetary gears used in starters.

Application notes

Klübersynth LP 42-32 is applied 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 the original closed container in a dry 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 can be downloaded or requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber.

Klübersynth LP 42-32

- Synthetic low-temperature grease
- Inhibits fretting corrosion
- Thermally stable, does not become pasty
- High resistance to wear and corrosion
- UV indicator for quality assurance at 366 nm
- Starter grease acc. to Bosch standard N28 FT 1022-002 (formerly VS 18570-Ft)

Product data

Colour	beige
Service temperature range*, [°C]	- 50 to 150
Texture	homogeneous
Density at 20 °C, [g/cm ³], approx.	1
Drop point, DIN ISO 2176, [°C]	≥ 180
Worked penetration DIN ISO 2137, at 25 °C, [0.1 mm]	265 to 295
Consistency grade, DIN 51818, NLGI	2
Anticorrosion properties DIN 51802, Emcor test, corrosion degree	≤1
Copper corrosion, DIN 51811, after 24 h / 120 °C, corrosion degree	≤ 2 – 120
Oil separation, FTMS 791 C-321.3, after 30 h / 100 °C, [wt. %]	≤ 6
Base oil viscosity, DIN 51562, pt. 01, at 40 °C, [mm ² /s], approx. at 100 °C, [mm ² /s], approx.	25 5
Flow pressure, DIN 51805 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.

The data in this product information is based on our general experience and knowledge at the time of printing 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 tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



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Klüber Lubrication München KG
Geisenhausenerstraße 7, 81379 München, Deutschland
☎ +49 89 7876-0, Telefax +49 89 7876-333, www.klueber.com