

Description

Klübersynth LI 44-22 is a fully synthetic, dynamically light low-temperature grease with good dampening and adhesion properties as well as water resistance. It is based on synthetic hydrocarbons, lithium soap, antifriction solid lubricants as well as corrosion and oxidation inhibitors. Klübersynth LI 44-22 is almost neutral towards many plastics and elastomers.*** (table see next page)

Application

Due to its excellent low-temperature and dampening characteristics Klübersynth LI 44-22 is used in the precision engineering and automotive industry, e.g. for automatic locking systems, seat adjustment systems and small gears.

Klübersynth LI 44-22 is particularly suitable for plastic/plastic and steel/plastic material pairings.

The product is approved according to the specifications VW-TL 778 B and Ford WSD-M1C234-A2.

Application notes

Apply Klübersynth LI 44-22 by brush or spatula, or with conventional metering systems.

Minimum shelf life

The minimum shelf life is approx. 36 months if the product is stored in its unopened original container in a dry place.

Pack size

1 kg can
25 kg bucket
50 kg bucket

Klübersynth LI 44-22

- Synthetic low-temperature grease with good dampening properties
- Almost neutral towards many plastics
- Low friction coefficients
- Resistant to ageing
- Approved acc. to VW-TL 778 B and Ford WSD-M1C234-A2

Product data

Service temperature range*, °C, approx.	– 60 ... 130
Colour, aspect	beige
Texture	homogeneous, short-fibred
Density, at 20 °C, g/cm ³ , approx.	0.9
Drop point, DIN ISO 2176, °C	> 180
Worked penetration, DIN ISO 2137 at 25 °C	265 ... 295
Consistency, DIN 51 818, NLGI	2
Flow pressure, DIN 51 805, mbar at – 35 °C at – 60 °C	< 450 < 1400
Anticorrosion properties, DIN 51 802 corrosion rating	0/1
Base oil viscosity, DIN 51 562, mm ² /s, approx. at 40 °C at 100 °C	18 4
Oxidation stability, DIN 51 808 100 h at 99 °C, bar	< 0.5
Water resistance, DIN 51 807-1 3 h at 90 °C	1–90
Copper corrosion, DIN 51 811, 24 h at 100 °C	1–100
Apparent dynamic viscosity Klüber viscosity grade**	EL

* 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 mechanical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

** Klüber viscosity grades: EL = extra light lubricating grease; L = light lubricating grease; M = medium lubricating grease; S = heavy lubricating grease; ES = extra heavy lubricating grease

Klübersynth® LI 44-22

Synthetic low-temperature grease with good dampening properties

*** Compatibility with elastomers and plastics

Klübersynth LI 44-22 is almost neutral to many plastics and elastomers. Owing to the many different elastomer compositions, we recommend checking the elastomer compatibility prior to series applications.

Elastomer compatibility test acc. to DIN 53 521 Material: SRE NBR 28	Modification after exposure to air 48 h at 110 °C	Modification after exposure to Klübersynth LI 44-22 48 h at 110 °C	Modification after exposure to air 168 h at 100 °C	Modification after exposure to Klübersynth LI 44-22 168 h at 110 °C
Volume, %	- 1.4	+ 2.4	- 1.6	+ 2.3
Weight, %	- 1.2	+ 1.5	- 1.2	+ 1.6
Hardness Shore A, unit	+ 3	- 1	+ 5	+1
Tensile strength, %	+ 4	- 4	- 2	- 10
Elongation at tear, %	- 15	- 16	- 30	- 31

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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