

# Klübersynth® LG 44-32

Smooth running grease with excellent corrosion protection and good compatibility with plastics and elastomers



## Description

Klübersynth LG 44-32 is a light-colored special lubricating grease containing lithium soap, synthetic hydrocarbon (viscosity 18 cSt at 40°C) and adhesion additives. This low-temperature grease offers excellent corrosion protection.

The corrosion protection additive of this lubricant has been exclusively formulated for Klüber Lubrication in view of material compatibility and water resistance.

Klübersynth LG 44-32 shows good compatibility with plastics and elastomers.

## Applications

Klübersynth LG 44-32 can be used as high-speed grease for plain bearings as well as for plastic material pairings in small gears.

Klübersynth LG 44-32 is suitable for corrosion-sensitive components in the automotive industry requiring good low-temperature stability and smooth running, for example: electric motors, small gears, windscreen wipers, window lifters, sunroofs, door locks, bowden cables, park braking systems, gearboxes, side mirrors, brakes of commercial vehicles.

## Application notes

Klübersynth LG 44-32 is applied by brush, spatula or grease gun.

## Minimum shelf life

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

## Pack sizes

1 kg	can
25 kg	bucket
170 kg	drum

Material safety data sheets can be downloaded or requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber.

## Klübersynth LG 44-32

- Good corrosion protection and resistance to water and salt water
- Good low-temperature resistance
- Good compatibility with plastics
- Good compatibility with elastomers
- For high speeds
- Smooth running grease
- Contains UV indicator (366nm)

## Product data

Base oil	synthetic hydrocarbon oil
Thickener	lithium soap
Color	beige
Texture	homogeneous, short-fibred
Service temperature range* [°C]	-60 to +130
Consistency, DIN 51858, [NLGI]	2
Density at 20 °C, [g/cm <sup>3</sup> ] approx.	0.85
Oil separation, FTMS 791C 321.3, 30 h, 100 °C, [% by wt.]	≤ 5
Oil separation, DIN 51817 N, 7d, 40 °C, [% by wt.]	≤ 5
Drop point, DIN ISO 2176 [°C]	≥ 185
Corrosion protection, based on DIN 51802, SKF EMCOR, synth. seawater, 1 week	≤ 1
Flow pressure, DIN 51805, -60 °C [mbar]	≤ 1400
Apparent dynamic viscosity, viscosity grade**	L
Water washout test, ASTM-D1264, 79 °C, 1 h, [% by wt.]	≤ 15
Copper corrosion, DIN 51811, 24 h, 100 °C	1-100

\* 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

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## Additional data\*\*\*

### Compatibility with plastics, DIN ISO 4599

Determination of the resistance to environmental stress cracking ( ESC )

acc. to the bent strip method

85 °C, 1000h, degree of bending 2%

PA 66 Ultramid A 3 K Messrs. BASF	ok
POM Delrin 100 NC Messrs. Du Pont	ok

ok = no fracture, no visible cracks, permanent deformation

Type of test piece: acc. to DIN EN ISO 527 - 2 bones 1 A ( thickness 4 mm )  
Duration of test: 1000 hours  
Test temperature: 85 °C  
Test pieces are tempered for 2 hours at 85 °C prior to test.

### Determination of the resistance to elastomers acc. to DIN ISO 1817

	SRE NBR 1	SRE NBR 28
	168 h/100 °C <sup>1)</sup>	48 h/110 °C <sup>2)</sup>
Change in volume [%]	3,5	1,8
Change in hardness Shore A	-3	-3
Change in elongation at tear [%]	-11	-12
Change in tensile strength [%]	-2	-30

<sup>1)</sup> Test acc. to DBL 6827.40

<sup>2)</sup> Test acc. to VW TL 778

\*\*\* The stated values are not subject to regular testing and serve only for orientation. Fixed product data cannot be derived from these data.

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