

# ISOFLEX TOPAS L 32, L 32 N

Special low-temperature greases



## Description

ISOFLEX TOPAS L 32 and L 32 N have been designed for extremely low temperatures. These greases consist of a synthetic hydrocarbon oil and a special lithium soap. ISOFLEX L 32 and L 32 N are resistant to ageing and oxidation and provide good corrosion protection as well as water resistance. ISOFLEX TOPAS L 32 N also contains a UV indicator, which ensures quality checking even with minimum quantity lubrication.

## Applications

ISOFLEX TOPAS L 32 and L 32 N are especially suitable for the lubrication of small gears used in automotive engineering for electrical adjustment mechanisms, e.g. window lifters, sun roofs, seats, headlamps, fan flaps.

Both products have been approved by renowned car manufacturers, such as

Volkswagen VW TL 778 A  
DaimlerChrysler DBL 6827.40 and  
DBL 6827.41.

ISOFLEX TOPAS L 32 and L 32 N can also be used for:

- Guideways, bowden cables, door locks
- Rolling bearings in small motors, fans, pumps
- Tooth flanks with plastic/plastic (e.g. POM, PA and PE) or plastic/steel material combinations.

## Application notes

The lubricant is applied by spatula, brush, grease gun or cartridge.

## Minimum shelf life

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

## Pack sizes

- 1 kg can
- 25 kg bucket
- 170 kg drum

ISOFLEX TOPAS L 32 also in 370 g cartridges

## ISOFLEX TOPAS L 32 and ISOFLEX TOPAS L 32 N

- Synthetic low-temperature greases
- Good corrosion protection
- Resistant to ageing and oxidation
- Biodegradable acc. to CEC-L 33-A-93 (21 d) > 70 %
- Especially suitable for small gears
- L 32 N contains UV indicator

Current material safety data sheets can be downloaded from our website [www.klueber.com](http://www.klueber.com) or requested from Klüber Lubrication.

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## Product data

Colour	beige
Texture	homogeneous, short-fibred
Density at 20 °C, g/cm <sup>3</sup>	approx. 0.86
Service temperature range*, °C	- 60 to 130
Drop point, DIN ISO 2176, °C	> 185
Worked penetration, DIN ISO 2137, at 25 °C, 0.1 mm	265 - 295
Consistency, NLGI grade, DIN 51818	2
Kinematic viscosity of the base oil, DIN 51562 part 01, Ubbelohde, 40 °C, [mm <sup>2</sup> /s], approx. 100 °C, [mm <sup>2</sup> /s], approx.	15 to 19 3,8 bis 4,2
Speed factor**, (n x dm)	1,000,000
Apparent dynamic viscosity, viscosity grade***	L
Corrosion protection, DIN 51802 (SKF-Emcor), testing period 1 week, distilled water	0/1
Water resistance, DIN 51807 pt.1, 3h/90 °C	1 - 90
Flow pressure, DIN 51 805, at - 35 °C, mbar	max. 450

\* 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.

\*\* Speed factors are guide values which depend on the type and size of the rolling bearing type and the local operating conditions, which is why they have to be confirmed in tests carried out by the user in each individual case.

\*\*\* 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

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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