

SYNTHESO GLK 0 and GLK 1

Special lubricating greases for elastomers



Description

SYNTHESO GLK 0 and GLK 1 are special lubricating greases for a wide variety of applications with an almost neutral behaviour towards many elastomers (also EPDM) and plastics.

Both products offer excellent wear protection, high load-carrying capacity, good adhesion and resistance to water.

Application

SYNTHESO GLK 0 and GLK 1 have been designed for the lubrication of *elastomer - metal*, *plastic - metal*, *plastic - plastic* as well as *metal - metal* sliding material combinations.

The products are typically used in the automotive industry as assembly greases for plain bearings. E.g. in brake and clutch systems for linear motion in contact with brake fluids DOT 3, 4 and 5.1.

Application examples: guide bushes, bolts, EPDM and SBR seals, clutch master and slave cylinders, corrosion protection of brake shoe supports in disc brake calipers.

In all such applications, SYNTHESO GLK0 and GLK1 facilitate damage free assembly and provide reliable long term lubrication.

SYNTHESO GLK 0 and GLK 1 can also be used for the lubrication of plain bearings with low sliding velocities and for the lubrication of small plastic gears.

Application notes

A wear test should be carried out prior to using SYNTHESO GLK 0 and GLK 1 in context with aluminium or aluminium alloys under dynamically high load conditions.

Owing to the many different elastomer and plastic compositions we recommend checking their compatibility prior to series application.

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
180 kg	drum

SYNTHESO GLK 0 und GLK 1

- Special lubricants for the assembly and lifetime lubrication of elastomers
- Almost neutral towards EPDM/metal or plastic sliding material combinations

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.

Product data

Chemical composition, oil type	polyalkylene glycol
Chemical composition, thickener	special lithium soap
Service temperature range* [°C], approx.	-40 to +150
Colour**	beige
Texture	homogeneous, fibrous
Drop point, DIN ISO 2176 [°C] SYNTHESO GLK 1 SYNTHESO GLK 0	≥ 250 ≥ 220
Cone penetration of lubricating greases, DIN ISO 2137, worked penetration, 25 °C [0.1 mm] SYNTHESO GLK 1 SYNTHESO GLK 0	285 – 315 355 – 375
Water resistance, DIN 51807 pt. 1, 3 h / 90 °C rating	≤ 1 - 90
Density at 20 °C [g/cm ³], approx.	0.97
Kinematic viscosity of the base oil, DIN 51562 pt. 01, Ubbelohde, 40 °C [mm ² /s]	350 – 375

*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.
**Note: The colour may change during storage, however this does not affect the performance of the product

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