SYNTHESO GLEP 1

Special lubricating grease with EP additives
compatible with EPDM

Description

SYNTHESO GLEP 1 is a special lubricant for a wide variety of applications with an almost neutral behavior towards many elastomers (including EPDM) and plastics (except PC and ABS).*

SYNTHESO GLEP 1 can be used in a wide service temperature range and offers efficient protection against wear, good adhesion and resistance to water.

Application

SYNTHESO GLEP has been designed for the lubrication of
metal – metal;
elastomer – metal
plastic - metal
plastic - plastic
sliding material combinations.

The product is typically used in the automotive industry as assembly grease 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 and bolts, EPDM and SBR seals, clutch master and slave cylinders, corrosion protection of brake pad supports in disc brake calipers, brake boosters and noise reduction in elastic axle bearings, seals of steering columns. In such applications, SYNTHESO GLEP 1 facilitates assembly and provides reliable lubrication.
Due to its good resistance to EPDM elastomers, SYNTHESO GLEP 1 is mainly used in car brakes as it offers good advantages versus silicone greases, like better load-carrying capacity, good adhesion and compatibility with electric contacts.

Application notes

SYNTHESO GLEP 1 can be applied by brush, spatula, grease gun or the usual central lubrication systems.
We do not recommend using SYNTHESO GLEP 1 in context with aluminum or aluminum alloys under dynamically high load conditions.
Owing to the many different elastomer and plastic compositions we recommend checking their compatibility prior to series application.

SYNTHESO GLEP 1

- Special lubricating grease for the assembly and lifetime lubrication of elastomers
- Almost neutral towards most sliding material pairings like EPDM/metal or plastic
- Reduces friction and wear

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

Current material safety data sheets may be downloaded from our website www.klueber.com or requested from Klüber Lubrication.

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Product data

Base oil	PAG
Thickener	special lithium soap
Color	beige
Texture	homogeneous, fibrous
Density at 20 °C, [g/cm³], approx.	0.97
Worked penetration, DIN ISO 2137 [0.1 mm]	280 – 310
Service temperature range**, [°C] approx. *	– 50 to 150
Drop point, [°C] DIN ISO 2176	> 220
Kinematic viscosity of the base oil, DIN 51562 part 01, Ubbelohde, 40°C [mm²/sec]	350 – 375
Apparent dynamic viscosity, [mPas] approx. at 25 °C and shear rate = 300 s^{-1}	4500
Copper corrosion, DIN 51811, 24h/100°C	1-100
Corrosion protection, DIN 51802, (SKF-EMCOR), 1 week, distilled water	≤ 1
Flow pressure, DIN 51805, -45°C [mbar]	< 1400
Water resistance, DIN 51807, part 01, 3h/90°C	1-90

* Not all materials with the same material denomination show the same behavior. We therefore recommend to test the resistance of the material in contact with the lubricant on the original componenent, especially prior to series application (our product and application recommendations do not release from the obligation to carry out own tests for the specific application)

** 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.

Freudenberg Klüber Lubrication, a member of the Freudenberg group

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