

Klüberplex GE 11-680

Adhesive gear lubricant



Description

Klüberplex GE 11-680 is an adhesive lubricant with a mineral oil base and an aluminium complex soap thickener. It is resistant to high pressure and contains anti-wear additives, corrosion and oxidation inhibitors. Klüberplex GE 11-680 is free of bitumen, solvents and raw materials containing lead.

Application

Klüberplex GE 11-680 is designed for the lubrication of open and closed spur and bevel gears, lifting spindles, slideways and guideways, large chain drives and sliding bearings. It is particularly suitable for elevated component temperatures and wherever adhesive lubricants containing solid lubricants should not be used.

Application notes

Klüberplex GE 11-680 should preferably be used for the lubrication of tooth flanks. It is applied to the gears through automatic spray systems. Smaller drives are also lubricated through positive drip-feed equipment, by brush or a hand spray equipment (e. g. with the Klübermatic LB spray gun). Splash lubrication is possible for components operating at low circumferential speeds (< 3 m/s).

Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry, frost-free place.

Operating temperature range*

The values indicated are approximate values depending on the

lubricant's composition, the intended use and application technique.

Splash lubrication:
approx. 0 °C to 140 °C

Automatic spray system:
approx. 0 °C to 90 °C

Positive drip-feed equipment:
Minimum temperature
approx. – 10 °C

Functional lubricant film, minimum temperature:
approx. – 30 °C

Thermal stability of the lubricant film in case of total loss lubrication, depending on relubrication, maximum temperature:
approx. 200 °C

Pack sizes

1 kg can
25 kg bucket

Klüberplex GE 11-680

- Adhesive lubricant
- Free of raw materials containing lead or solvents
- Resistant to high pressures
- FZG scuffing load stage > 12
- Anticorrosion properties
- Applicable through automatic lubrication systems

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

Product data

Colour	brown
Texture	homogeneous, very soft
Density at 20 °C, [g/cm ³], approx.	0.94
Base oil viscosity at 40 °C, DIN 51 562 part 1, [mm ² /s], approx.	685
Drop point, DIN ISO 2176, [°C]	≥ 170
Worked penetration, DIN ISO 2137, [0.1 mm]	380 - 420
Copper corrosion, DIN 51 811, after 24 h/100 °C, corrosion rating	1 - 100
FZG special test, based on DIN 14635-1, A/2.76/50 scuffing load stage change of specific weight, [mg/kWh]	≥ 12 ≤ 0.2

* 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.

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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