

Klüberlectric KR 44-102

Special grease for the lubrication of electrical switches, contacts and sensors



Description

Klüberlectric KR 44-102 is a special grease for the lubrication of electrical switches, contacts and sensors. It consists of a synthetic hydrocarbon oil and lithium soap incorporating a UV indicator for quality inspection. A special additive combination makes Klüberlectric KR 44-102 particularly suitable for the lubrication of electrical contacts. It is intended especially for the protection and lubrication of copper, tin and silver surfaces against corrosion. Further positive effects are: reduction of plug-in and switching forces, reduction of fretted oxide development, extended connecting and switching cycles, constantly low contact resistance and smoother switching transitions.

Application

For electrical components in the automotive, industrial engineering and installations sector. Due to its specific base oil viscosity, Klüberlectric KR 44-102 works particularly well under low to medium contact forces and at low temperatures. It is compatible with most plastic materials and hence can be used for the lubrication of plastic/plastic material combinations. Klüberlectric KR 44-102 minimises contact resistance values under lifetime operating requirements subject to varying electrical and mechanical loads.

Application notes

To utilise this special grease's full performance capacity, component parts to be greased should be cleaned to remove all foreign

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.

substances such as corrosion protection oils, waxes, etc. Electrical contacts should be bright and clean. The lubricant can be applied by spatula, tampon printing or via automatic dosing equipment. Due to the many different material compositions, in terms of elastomers and plastics, compatibility with the selected materials should always be tested prior to series application.

Minimum shelf life

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

Pack size

1 kg can
25 kg bucket

Product data

Colour	beige
Texture	short-fibred, homogeneous
Density, DIN 51 757 at 20 °C	0.86
Service temperature range in °C *	-40 °C to 150 °C
Drop point DIN ISO 2 176 in °C	> 180
Worked penetration DIN ISO 2 137 in 0.1 mm	265 to 295
Consistency class, DIN 51 818, NLGI	2
Base oil viscosity, DIN 51 562 part 1 at 40 °C in mm ² /s, approx.	110
at 100 °C in mm ² /s, approx.	15

* 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.

Klüberlectric KR 44-102

- Wide service temperature range
- Good corrosion protection of copper and silver contacts
- Ageing and oxidation stability
- Good compatibility with plastics
- Contains a UV indicator



Klüber Lubrication, a member of the Freudenberg group

Publisher and Copyright:
Klüber Lubrication München KG

Reprints, total or in part, are permitted if source is indicated and voucher copy is forwarded.

Klüber Lubrication München KG
Geisenhausenerstraße 7, 81379 München, Deutschland
☎ +49 89 7876-0, Telefax +49 89 7876-333, www.klueber.com