

# Klüberlectric KR 44- 22

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



## Benefits for your application

- For low-temperature applications
- Good corrosion protection of copper and silver contacts
- Ageing and oxidation stability
- Good compatibility with plastics
- Contains a UV indicator

## Description

Klüberlectric KR 44-22 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 enabling quality inspection when locally applied in small quantities. A special additive combination makes Klüberlectric KR 44-22 particularly suitable for the lubrication of electrical components. 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 low base oil viscosity, Klüberlectric KR 44-22 works particularly well under low 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 44-22

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 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.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klüberlectric KR 44- 22
Can 1 kg	+
Bucket 25 kg	+

Product data	Klüberlectric KR 44- 22
Article number	091033
Lower service temperature	-50 °C / -58 °F
Upper service temperature	130 °C / 266 °F
Colour space	beige
Texture	homogeneous
Texture	short-fibred



# Klüberlectric KR 44- 22

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

Product data	Klüberlectric KR 44- 22
Density at 20 °C	approx. 0.84 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 18 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 4 mm <sup>2</sup> /s
NLGI grade, DIN 51818	2
Drop point, DIN ISO 2176	>= 180 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months

## Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

**Klüber Lubrication München SE & Co. KG / Geisenhausenerstraße 7 / 81379 München / Germany / phone +49 89 7876-0 / fax +49 89 7876-333.**

The data in this document is based on our general experience and knowledge at the time of publication 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 field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

Publisher and Copyright: Klüber Lubrication München SE & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München SE & Co. KG and if source is indicated and voucher copy is forwarded.