

Klüberpaste 46 MR 401

Light-coloured high-pressure lubricating paste



Benefits for your application

- **Easy assembly and disassembly of highly loaded frictional connections**
- **Prevents premature material ageing caused by tribo-corrosion and stick slip**
- **Can be used with many material combinations, including plastics and elastomers**

Description

Klüberpaste 46 MR 401 is a multipurpose lubricating paste with selected base oils, lithium soap and special solid lubricant additives.

This versatile multipurpose paste has a wide service temperature range and shows good pressure absorption capacity as well as neutral behaviour towards non-ferrous metals, many plastics and elastomers.

Application

Klüberpaste 46 MR 401 is especially suitable as an assembly lubricant in frictional connections and for thin-film lubrication of all friction points subject to very high pressure loads, low sliding speed, high wear, Stick-Slip and tribo-corrosion.

Typical applications include: press fit assembly of pins and bolts, mounting of rolling bearings, wheels and flanges, lubrication of rolling and plain bearings operating at very low speeds.

Klüberpaste 46 MR 401 is also suitable to prevent running-in damage and stick-slip in components such as threaded spindles, spline shafts, ball and socket joints and rod end bearings.

Its good compatibility with plastics facilitates the lubrication of radial shaft seals (o-rings, v-rings, sealing cups) made of rubber-elastic materials for extended lifetime.

Owing to the many different elastomer and plastic compositions, we recommend compatibility be checked prior to series application.

Application notes

Before applying Klüberpaste 46 MR 401 it is important to clean the contact surfaces and remove any solvent residues with a lint-free, dry cloth.

Klüberpaste 46 MR 401 can be easily applied to the entire surface in a thin layer with a spatula. It is important to avoid overlubrication. Before applying the paste to a plastic material we recommend undertaking a materials compatibility test.

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.

Material safety data sheets

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 Lubrication.

Pack sizes	Klüberpaste 46 MR 401
Tube 60 g	+
Can 750 g	+
Cartridge 500 g	+
Bucket 30 kg	+



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Product data	Klüberpaste 46 MR 401
Article number	005108
Density at 20 °C	approx. 1.23 g/cm ³
Colour space	white
Lower service temperature	-40 °C / -40 °F
Upper service temperature	150 °C / 302 °F
Worked penetration, acc. to Klein, 25 °C, lower limit value	300 0,1 mm
Worked penetration, acc. to Klein, 25 °C, upper limit value	340 0,1 mm
Drop point, DIN ISO 2176	>= 185 °C
Four-ball tester, welding load, DIN 51350 pt. 04	>= 4 600
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree
Flow pressure of lubricating greases, DIN 51805, test temperature: -40 °C	<= 1 600 mbar

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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 KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.**

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