

Klüberpaste ME 31-52

Lubricating and assembly paste



Benefits for your application

- **Low lubricant costs for initial and relubrication due to thin lubricant films**
- **Good wear and corrosion protection helps reduce assembly forces and screw torques and prevents tribo- and fretting corrosion**
- **High pressure absorption capacity enables constant high clamping forces and consequently ensures properly fixed tools or workpieces in machine tool chucks**

Description

Klüberpaste ME 31-52 is a white/beige lubricating paste on the basis of mineral oil, calcium complex soap and inorganic solid lubricants.

Besides its application as a universal assembly paste, this product offers benefits especially in friction points with small to minimum motion under high static and dynamic loads.

Klüberpaste ME 31-52 improves the sliding behavior of moving chuck components, enables a good transmission of clamping forces and may therefore be used in all types of chucks, such as scroll, cam and spiral chucks.

Because of the raw materials used, Klüberpaste ME 31-52 complies with the current chemicals law. It prevents stick-slip and protects against tribo- and fretting corrosion in frictional or positive connections.

Application

Klüberpaste ME 31-52 can be used for the assembly of frictional connections, e.g. annular springs or split taper sleeves, and positive connections, e.g. bearing seats, profiled guides, etc.

The product has proven particularly successful in the lubrication of clamping chucks. High precision and constant clamping forces are essential requirements in chucks. Any decrease of the clamping force may cause tools or workpieces to become loose.

Application notes

Clean and degrease the surfaces thoroughly. Then apply the paste in a thin, coherent layer by means of a brush or cloth that does not fray (do not rub in).

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klüberpaste ME 31-52
Tube 70 g	+
Cartridge 500 g	+
Can 750 g	+
Bucket 30 kg	+

Product data	Klüberpaste ME 31-52
Article number	005115
Chemical composition, solid lubricant	solid lubricant
Chemical composition, thickener	calcium complex soap
Chemical composition, type of oil	mineral oil
Upper service temperature	150 °C / 302 °F
Lower service temperature	-15 °C / 5 °F



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Product data	Klüberpaste ME 31-52
Colour space	beige
Texture	homogeneous
Texture	fibrous
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	250 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	280 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 46 mm ² /s
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
Four-ball tester, welding load, DIN 51350 pt. 04	>= 4 000 N
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	4 000 mPas
Shear viscosity at 25°C, shear rate 300 s ⁻¹ , equipment:rotational viscometer, upper limit value	10 000 mPas
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.

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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.

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