

Klüberpaste ME 31-52

Lubricating and assembly paste



Your benefits at a glance

- 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

Your requirements - our solution

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.

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.

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 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 |
|-----------------|----------------------|
| Cartridge 500 g | + |
| Can 750 g | + |
| Bucket 30 kg | + |
| Drum 180 kg | + |

| Characteristics | Klüberpaste ME 31-52 |
|------------------------------|----------------------|
| Article number | 005115 |
| Composition, solid lubricant | solid lubricant |
| Composition, thickener | calcium complex soap |

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| Characteristics | Klüberpaste ME 31-52 |
|---|-------------------------------|
| Composition, type of oil | mineral oil |
| Colour space | beige |
| Texture | fibrous , homogeneous |
| Service temperature, lower limit | -15 °C |
| Service temperature, upper limit | 150 °C |
| Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit | 250 0.1 mm |
| Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit | 280 0.1 mm |
| Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , lower limit | 4000 mPas |
| Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , upper limit | 10000 mPas |
| Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C | approx. 46 mm ² /s |
| Copper corrosion, DIN 51811, 24 h, 100°C | 1 - 100 - 24 corrosion degree |
| SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h | ≤ 1 corrosion degree |
| Four-ball tester, welding load, DIN 51350-4 | ≥ 4000 N |
| 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 95 years.

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