

# Klüberpaste® ME 31-52

## Lubricating and assembly paste

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### Benefits for your application

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- **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**
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### 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.

### 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).

### Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry, frost-free place.

### Pack sizes

70 g tube, 500 g cartridge,  
750 g can and 30 kg bucket

### Material safety data sheets

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



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## Lubricating and assembly paste

Product data	Klüberpaste ME 31-52
Chemical composition, oil type	mineral oil
Chemical composition, thickener	calcium complex soap
Chemical composition	solid lubricant
Color	beige
Texture	fibrous, homogeneous
Service temperature range*, [°C]	- 15 to 150
Worked penetration, DIN ISO 2137, [0.1 mm]	250 - 280
Klüber viscosity grade**	M/S
Four ball wear test/welding load, DIN 51 350 pt. 4, [N]	> 4,000
Corrosion protection on copper, DIN 51811, 24h/100 °C corrosion degree	1 - 100
Corrosion protection (EMCOR test), DIN 51802 rating level	≤ 1
Base oil viscosity, at 40 °C, [mm <sup>2</sup> /s], approx.	46

\* 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.

\*\* Klüber viscosity grades: EL = extra light lubricating grease; L = light lubricating grease; M = medium lubricating grease; S = heavy lubricating grease; ES = extra heavy lubricating grease

### Lubrication is our world

**With more than 2000 products available around the world, you can be sure that Klüber has the right product for your application. Please contact Klüber Lubrication specialists worldwide to assist you in all matters regarding lubrication.**

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