

ALTEMP Q NB 50

Lubricating and assembly paste



Your benefits at a glance

- Low lubricant costs for initial and relubrication due to long service life of water- and media-resistant product
- Good wear and corrosion protection helps reduce assembly forces and screw torques and prevents tribo- and fretting corrosion
- High pressure absorption capacity enables constant clamping forces and consequently ensures properly fixed tools or workpieces in machine tool chucks

Your requirements - our solution

ALTEMP Q NB 50 is a white/beige lubricating paste containing a mineral base oil, a barium 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

ALTEMP Q NB 50 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.

ALTEMP Q NB 50 improves the sliding behavior of moving chuck components, enables constant clamping forces and may therefore be used in all types of chucks, such as scroll, cam and spiral chucks. It prevents stick-slip and protects against tribo- and fretting corrosion in frictional or positive connections. Furthermore, ALTEMP Q NB 50 is resistant to water and media, e.g. against cooling lubricants.

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). ALTEMP Q NB 50-Spray can be used to facilitate application.

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	ALTEMP Q NB 50	ALTEMP Q NB 50 Spray
Cartridge 600 g	+	
Aerosol can 400 ml		+
Can 750 g	+	
Bucket 30 kg	+	

Hint

Except for the article number and the minimum shelf life, the spray data below refer to the solvent-free spray agent.

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Characteristics	ALTEMP Q NB 50	ALTEMP Q NB 50 Spray
Article number	005011	081038
Composition	solid lubricant	solid lubricant
Composition, thickener	barium complex soap	barium complex soap
Composition, type of oil	mineral oil	mineral oil
Colour space	white	white
Texture	almost homogeneous , fibrous	almost homogeneous , fibrous
Service temperature, lower limit	-15 °C	-15 °C
Service temperature, upper limit	150 °C	150 °C
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	250 0.1 mm	250 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	270 0.1 mm	270 0.1 mm
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , lower limit	7000 mPas	7000 mPas
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , upper limit	13000 mPas	13000 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 46 mm ² /s	approx. 46 mm ² /s
Copper corrosion, DIN 51811, 24 h, 100°C	1 - 100 - 24 corrosion degree	1 - 100 - 24 corrosion degree
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree	≤ 1 corrosion degree
Four-ball tester, welding load, DIN 51350-4	≥ 4000 N	≥ 4000 N
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months	24 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 90 years.

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

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