

# ALTEMP Q NB 50

Lubricating and assembly paste



## Benefits for your application

- **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**

## Description

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](http://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
Tube 80 g	+	-
Cartridge 600 g	+	-
Can 750 g	+	-
Bucket 30 kg	+	-
Aerosol can 400 ml	-	+

## Note

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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Product data	ALTEMP Q NB 50	ALTEMP Q NB 50 Spray
Article number	005011	081038
Lower service temperature	-15 °C / 5 °F	-15 °C / 5 °F
Upper service temperature	150 °C / 302 °F	150 °C / 302 °F
Chemical composition	solid lubricant	solid lubricant
Chemical composition, thickener	barium complex soap	barium complex soap
Chemical composition, type of oil	mineral oil	mineral oil
Texture	almost homogeneous	almost homogeneous
Texture	fibrous	fibrous
Colour space	white	white
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	250 x 0.1 mm	250 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	270 x 0.1 mm	270 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 <sup>2</sup> /s	approx. 46 mm <sup>2</sup> /s
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree	1 - 100 corrosion degree
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree	<= 1 corrosion degree
Four-ball tester, welding load, DIN 51350 pt. 04	>= 4 000 N	>= 4 000 N
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, lower limit value	7 000 mPas	7 000 mPas
Shear viscosity at 25°C, shear rate 300 s <sup>-1</sup> , equipment:rotational viscometer, upper limit value	13 000 mPas	13 000 mPas
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 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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