

Description:

ALTEMP Q NB 50 is a white/beige lubricating paste with a mineral base oil, barium complex soap and inorganic solid lubricants.

The raw materials contain no lead, cadmium, nickel, sulphur or halogens.

This lubricating paste is universally applicable for assembly purposes and is especially suitable for friction points subject to small and very small sliding movements under high static and dynamic loads. It also provides reliable protection against fretting corrosion.

Application:

ALTEMP Q NB 50 is suitable for all friction points, e.g. press fits, bearing seats, bolts, spline shafts, threaded spindles, profile guides.

It has also proven effective to lubricate chucks. The main criteria for chucks are high precision and uniform clamping force. If the clamping force is reduced the workpiece may fall out.

ALTEMP Q NB 50 improves the sliding properties of the chuck components, ensures optimum transmission of the clamping force. It is suitable for all types of chucks, e.g. scroll, cam and spiral chucks.

In addition, ALTEMP Q NB 50 is very resistant to water and other media, e.g. coolants and cutting fluids. It prevents stick slip and protects against tribo-corrosion, for example in power-locking connections.

Application notes:

Clean and degrease the surfaces thoroughly. Apply the paste in a thin coherent layer by brush or with a cloth that does not fray (do not rub in).

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

Minimum shelf life:

The minimum shelf life is approx. 24 months if the product is stored in the original closed container in a dry place.

Pack sizes:

70 g tube
600 g cartridge
0.75 kg can
25 kg drum

Product data:

Colour, appearance	white to beige
Service temperature range*, °C, approx.	- 15 to 150
Base oil viscosity, DIN 51 561 at 40 °C, mm ² /s	42 to 50
Drop point, DIN ISO 2176, °C	> 170
Worked penetration at 25 °C, DIN ISO 2137 (ASTM D 217); 0.1 mm	250 to 270
Four-ball test, welding force, DIN 51 350 Part 4, N	> 4 000
Corrosion protection, SKF Emcors test, DIN 51 802, 1 week, distilled water, corrosion rating	0/1

* 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.

ALTEMP Q NB 50

- Metal-free
- High-performance lubricating and assembly paste
- Increases efficiency of clamping chucks
- Very good resistance to media
- High load-carrying capacity
- Prevents stick slip and tribo-corrosion

ALTEMP[®] Q NB 50

Safety Data Sheet

1.1 Product name: ALTEMP Q NB 50 Code-No.: 005 011 15.11.2001	General protection and hygiene measures: Avoid prolonged and/or repeated contact with skin. Remove soiled or soaked clothing immediately. Clean skin thoroughly after work; apply skin cream						
1.2 Klüber Lubrication München KG Geisenhausenerstraße 7 D-81379 München Tel. ++49 - 89 78 76 - 0 telephone exchange Fax: ++49 - 89 78 76 - 333 Emergency telephone no.: ++49 - 89 7876 - 0	9. Physical and chemical properties Form: paste Colour: white to beige Odour: characteristic Drop point: > 170 °C, DIN ISO 2176 Flash point: > 200 °C (base oil) Ignition temperature: not applicable Lower explosion limit: not applicable Upper explosion limit: not applicable Vapour pressure-first: not applicable Density: approx. 1.40 g/cm ³ , 20 °C Water solubility: insoluble pH value: not applicable Kinematic viscosity: not applicable Further information: none						
2. Composition / information on ingredients Chemical characterization (preparation): Mineral oil, barium complex soap, solid lubricants Hazardous ingredients <table border="1"><thead><tr><th>Components</th><th>Value</th><th>R-phrases</th></tr></thead><tbody><tr><td>Barium soap</td><td>< 25%</td><td>52/53</td></tr></tbody></table>	Components	Value	R-phrases	Barium soap	< 25%	52/53	10. Stability and reactivity Conditions to avoid: None Materials to avoid: Strong oxidizing agents Hazardous decomposition products: None under normal use Additional information: None
Components	Value	R-phrases					
Barium soap	< 25%	52/53					
3. Hazards identification Prolonged skin contact may cause skin irritation and/or dermatitis	11. Toxicological information Prolonged skin contact may cause skin irritation and/or dermatitis						
4. First aid measures After inhalation: Not applicable After contact with skin: Wash off with mild cleaners and plenty of water. If symptoms persist, call a physician After contact with eyes: Rinse with plenty of water. If symptoms persist, call a physician After ingestion: Do not induce vomiting. Obtain medical attention Advice to doctor: Treat symptomatically	12. Ecological information Information on elimination (persistence and degradability): Product is insoluble in water. May be separated out mechanically in purification plants Behaviour in environmental compartments: Ecological injuries are not known or expected under normal use Ecotoxic effects: Barium complex soap: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Additional information: Should not be released into the environment						
5. Fire-fighting measures Suitable extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO ₂) Unsuitable extinguishing media: High volume water jet Special Hazards: In case of fire the following can be released: Carbon monoxide, hydrocarbons Special protective equipment for firefighters: Standard procedure for chemical fires Additional information: Water mist may be used to cool closed containers. In the event of fire and/or explosion do not breathe fumes	13. Advice on Disposal Code of waste: 120 112. Wastes from shaping and surface treatment of metals and plastics; wastes from shaping (including forging, welding, pressing, drawing, turning, cutting and filling); spent waxes and fats Disposal: The code of waste has to correspond to the Council Directive 75/442/EEC and be specific as far as the related sector and process are concerned. Can be incinerated when in compliance with local, state and federal regulations Dispose of contaminated packaging and recommended cleaning: Offer rinsed packaging material to local recycling facilities						
6. Accidental release measures Personal precautions: Not required Environmental precautions: Do not flush into surface water or sanitary sewer system Methods for cleaning up / taking up: Use mechanical handling equipment. Dispose of absorbed material in accordance with the regulations Additional information: None	14. Transport information GGVS / GGVE: not applicable ADN / ADN: not applicable IMDG-Code: not applicable ICAO / IATA-DGR: not applicable Further information: Not classified as dangerous in the meaning of transport regulations						
7. Handling and storage Advice on safe handling: No special handling advice required Advice on protection against fire and explosion: No special precautions required Requirements on storage rooms and vessels: Store at room temperature in the original container Incompatible materials: Incompatible with oxidizing agents. Do not store together with food Further information on storage conditions: None	15. Regulatory information Labelling according to EU-guidelines: The product does not require a hazard warning label in accordance with EC-directives/German regulations on dangerous substances National regulations: Labelling according to the Swiss regulations: No toxicological class, BAGT-no. 611484						
8. Exposure controls / personal protection Additional advice on system design: Not applicable Ingredients and specific control parameters: None Respiratory protection: No special protective equipment required Hand protection: No special protective equipment required Eye protection: No special protective equipment required Body protection: No special protective equipment required Other protection measures: No special protective equipment required	16. Other information Issue-department of Safety Data Sheet: Chemical Documentation, Tel.: ++49 - 89 7876 - 564						

The data in this product information is based on our general experience and knowledge at the time of printing 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 tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



Klüber Lubrication München KG, a member of the Freudenberg group