

For the MSDS please contact Kluber directly at 800-447-2283 or info@us.kluber.com

### 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 <sup>2</sup> /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 Emscor 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