

Klüberbeta VR 67-17002

Special soft grease for sanitary and heating valves and taps



Benefits for your application

- **Prolonged service life of cartridges, valves and fittings due to**
 - continuous wetting of the friction surfaces
 - compatibility with most standard elastomers and plastics
 - friction and wear reduction in most material combinations
- **Prevents stick-slip and provides balanced damping of operation**
 - as temperature has little effect on lubricating film thickness
 - due to high base oil viscosity (effect on actuating forces)
- **Certified for use in drinking water and beverage taps**
 - according to UBA (German Environmental Agency) guideline (KTW), NSF 61, WRAS, ACS, Belgaqua, AS 4020, NSF H1 - further certifications available on request
- **NSF ISO 21469 certified - supports the compliance with the hygienic requirements in your production plant. You will find further information on ISO Standard 21469 on our website www.klueber.com**

Description

Klüberbeta VR 67-17002 is a pasty, whitish special grease for valves and fittings. It is based on silicone oils which comply with drinking water regulations. It shows a high dynamic viscosity which is relatively insensitive to temperature.

Klüberbeta VR 67-17002 is a thixotrope product, i.e. it behaves like a consistent lubricant when at rest, while under dynamic load it begins to flow. The product thus combines sufficient wetting of the friction point and hence sound lubrication with a good sealing effect and adhesion.

Klüberbeta VR 67-17002 is NSF H1 registered and therefore complies with FDA 21 CFR § 178.3570. The lubricant was developed for incidental contact with products and packaging materials in the food-processing, cosmetics, pharmaceutical or animal feed industries. The use of Klüberbeta VR 67-17002 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Application

Klüberbeta VR 67-17002 is suitable for drinking water and beverage taps as well as in heating installations, for example to improve the smooth operation of valves and fittings through defined actuating forces.

Typical applications include the lubrication of ceramic discs, e.g. in single lever mixer taps, piston mixers, plastic taps, valves, thermostats, press fit seals and similar components.

Klüberbeta VR 67-17002 generally provides load-bearing lubricating films up to 3 N/mm² under normal operating conditions in the industry.

Klüberbeta VR 67-17002 has proven particularly successful as assembly lubricant for seals, collars and seal packings in cold and hot water as well as steam applications.

Application notes

Being a silicone grease, Klüberbeta VR 67-17002 shows mostly neutral behaviour towards most metals, thermoplastics and elastomers.

Nevertheless, we recommend that the grease's compatibility with the materials in contact be checked, ideally using the complete component under series production conditions.

All surfaces should be thoroughly cleaned and degreased prior to application. Afterwards, Klüberbeta VR 67-17002 can be applied by suitable application equipment, e.g. by brush, spatula, using the Tampoprint method, etc.

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.

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Pack sizes	Klüberbeta VR 67-17002
Can 1 kg	+
Bucket 25 kg	+

Product data	Klüberbeta VR 67-17002
Article number	022225
NSF-H1 registration	144 019
Chemical composition, type of oil	silicone oil
Chemical composition, thickener	silicate
Lower service temperature	-40 °C / -40 °F
Upper service temperature	160 °C / 320 °F
Colour space	white
Density at 20 °C	approx. 1.05 g/cm ³
Unworked penetration, acc. to Klein, 25 °C, lower limit value	240 x 0.1 mm
Unworked penetration, acc. to Klein, 25 °C, upper limit value	300 x 0.1 mm
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	20 000 mPas
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, upper limit value	46 000 mPas
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 25 °C	approx. 17 000 mm ² /s
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	12 months





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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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