

Klübertemp RHB 83-202

High-temperature grease for the food-processing and pharmaceutical industries



Benefits for your application

- Long maintenance intervals in applications with high thermal loads
 - due to remarkable thermal stability
 - due to good corrosion-inhibiting characteristics
- Registered as NSF H1 for use in the food-processing and pharmaceutical industries

Description

Klübertemp RHB 83-202 is a synthetic high-temperature grease based on perfluorinated polyether oils and selected PTFE solid lubricants.

The base oils of Klübertemp RHB 83-202 have a lower viscosity than those of most other products registered as NSF-H1; at the same time they offer a remarkable long-term stability at temperatures up to 240°C. The lower viscosity helps to improve the starting load and vibration, reducing the power draw at low temperatures.

Klübertemp RHB 83-202 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 Klübertemp RHB 83-202 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Application

Klübertemp RHB 83-202 was developed for the lubrication of bearings operating under high thermal loads in applications requiring hygienic monitoring and a long grease life.

Uses of Klübertemp RHB 83-202 are in oven cart bearings in the food-processing industry, oil centrifuges, pellet presses, etc.

Behaviour towards elastomers and plastics

Greases based on fluorinated polyether oils are neutral to most elastomer and plastic materials (possible exception: perfluorinated rubber).

Nevertheless we recommend testing compatibility with the material to be used, especially prior to series application.

Application notes

For optimum lubrication results, we recommend cleaning the friction point with white spirit 180/210 and then with Klüberalfa XZ 3-1 prior to initial lubrication.

The friction point has to be bright (i.e. free of oil, grease and perspiration) and free of contamination particles.

To optimise service life, please contact our technical sales staff.

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	Klübertemp RHB 83-202
Can 1 kg	+
Bucket 10 kg	+

Product data	Klübertemp RHB 83-202
Article number	090111
NLGI grade, DIN 51818	2
Lower service temperature	-45 °C / -49 °F
Upper service temperature	240 °C / 464 °F



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Product data	Klübertemp RHB 83-202
Speed factor (n x dm)	approx. 500 000 mm/min
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 200 mm²/s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 22 mm²/s
Shear viscosity at 25°C, shear rate 300 s-1, equipment:rotational viscometer, upper limit value	7 000 mPas
Shear viscosity at 25 °C, shear rate 300 s-1, equipment: rotational viscometer, lower limit value	4 000 mPas
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Chemical composition, type of oil	PFPE
Chemical composition, solid lubricant	PTFE
Density at 20 °C	approx. 1.95 g/cm ³
Flow pressure of lubricating greases, DIN 51805, test temperature: -40 °C	<= 1 400 mbar
NSF-H1 registration	140 457
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 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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