

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
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Description

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

Klübertemp RHB 83-202 is registered as NSF-H1 and complies with FDA 21 CFR § 178.3570. 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.

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.

Minimum shelf life

The minimum shelf life is approximately 60 months if the product is stored in its unopened original container in a dry, frost-free place.

Pack sizes

1 kg can

Further pack sizes are available on request.

Material safety data sheets

Material safety data sheets can be downloaded or requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.



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

Product data	Klübertemp RHB 83-202
Article No.	090111
Chemical composition	perfluorinated polyether oil, PTFE
Service temperature range,* [°C], approx.	-40 to 240
Density at 20 °C, [g/cm ³], approx.	1.95
Consistency, DIN 51 818; NLGI class	2
Apparent dynamic viscosity, Klüber viscosity grade***	M
Drop point, DIN ISO 2176**; [°C]	not measurable
Base oil viscosity, DIN 51 562, at 40 °C, [mm ² /s], approx. at 100 °C, [mm ² /s], approx.	200 22
Corrosion-inhibiting properties of lubricating greases, DIN 51 802, (SKF Emcor), test duration: 1 week, distilled water	≤ 1
Flow pressure, DIN 51 805, at -40 °C [mbar]	≤ 1 400
Speed factor**** (n x d _m) [mm x min ⁻¹], approx.	600 000
NSF-H1 registration*****, registration number	140457

* 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.

** The drop point of this high-temperature grease cannot be measured according to DIN 2176 (does not melt); however, some oil separation may occur above 170°C.

*** Klüber viscosity grades: EL = extra light lubricating grease; L = light lubricating grease; M = medium lubricating grease; S = heavy lubricating grease; ES = extra heavy lubricating grease

**** Speed factors are guide values which depend on the type and size of the rolling bearing type and the local operating conditions, which is why they have to be confirmed in tests carried out by the user in each individual case

*****This lubricant is registered as H1, which means that it has been designed for incidental, technically unavoidable food contact. Experience shows that it can be used for equivalent applications in the cosmetic and pharmaceutical industry under the conditions described in the product information leaflet. Specific test results as e.g. biocompatibility, which could be an additional requirement for applications in the pharmaceutical industry, are not available for this product. Therefore, before using the lubricant adequate risk analyses should be performed and, if necessary, suitable measures be taken by the manufacturer and user of installations in order to exclude the risk of health hazards and personal injuries.

Lubrication is our world

With more than 2000 products available around the world, you can be sure that Klüber has the right product for your application. Please contact Klüber Lubrication specialists worldwide to assist you in all matters regarding lubrication.

www.klueber.com

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