

Klüberfood NH1 94-402

Synthetic special lubricating grease for the food processing and pharmaceutical industries

Benefits for your application

- **Good flow characteristics to provide good lubricant film across critical bearing surfaces for improved bearing protection**
 - **Extended bearing life and reduced down time resulting from the excellent load carrying properties**
 - **No harmful ingredients present in the grease; NSF H1 registered; suitable for use in food and pharmaceutical manufacturing plants.**
 - **Low oil separation characteristics providing good lubrication and wear protection of the friction surfaces**
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Description

Klüberfood NH1 94-402 is a special lubricating grease composed of a highly refined base oil and a calcium complex thickener. This grease has been designed for applications of potential incidental food contact for the lubrication of rolling bearings under the varying operating conditions of the food-processing industry.

Application

Klüberfood NH1 94-402 is used for the lubrication of rolling bearings of machines and installations e.g. in the manufacture of grain, meal and pellet animal feeds. It is intended for applications where there may be technically unavoidable contact with the food product.

This lubricant is certified as H1, which means that it has been designed and registered for incidental, technically unavoidable food contact. Specific test results referring to pharmaceutical applications are not available for this product (e.g. biocompatibility). Therefore, before using the lubricant adequate risk analyses have to be performed and, if necessary, suitable measures be taken by the manufacturer and user of pharmaceutical installations in order to exclude the risk of health hazards and personal injuries.

Application notes

Klüberfood NH1 94-402 is applied by standard commercial grease application equipment. e.g. spatula, grease gun. Before applying Klüberfood NH1 94-402, all lubrication points should be thoroughly cleaned to ensure maximum hygiene conditions exist, mandatory for food safe H1 lubrication.

If the production process does not allow cleaning we recommend the existing grease be replaced by purging the system during re-lubrication. Please do not hesitate to contact our Technical Consulting and Sales Departments in respect of grease miscibility, re-lubrication procedures etc.

Furthermore the product has been designed in the light of the requirements of the ISO 21469 / DIN V 10517.

Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry, frost-free place.



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Pack sizes

25 kg bucket
180 kg drum

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.

Product data	Klüberfood NH1 94-402
Colour	beige
Texture	homogeneous
Density at 20°C, [g/cm ³], approx.	0.97
Drop point, DIN ISO 2176, [°C]	≥ 250
Consistency, NLGI	1/2
Cone penetration at 25 °C, DIN ISO 2137, [0.1mm]	280 - 310
Kinematic viscosity**, DIN 51 562 [mm ² /s] at 40 °C, approx. at 100 °C, approx.	400 40
Low-temperature behaviour, flow pressure of lubricating greases, DIN 51805, test temperature: -30°C, [mbar], approx.	1400
Mechano-dynamical tests Four-ball tester, welding force, DIN 51350 part 04, [N]	≥ 3000
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, dist. water	≤ 1
Oil separation, FTMS 791 C 321 3 [ASTM D 6184], after 30 h/100 °C [wt %]	≤ 2
Service temperature range*, [°C], approx.	-30 to 140

* 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 values are based on a one-time measurement and are for information only without responsibility.


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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