

Klüberfood® NH1 87-703 Hygienic

Synthetic lubricating grease for valves and fittings with EPDM seals

Benefits for your application

- A reduction in your lubricant inventory with one lubricant which can be considered for both seals and rolling bearings
 - Good compatibility with EPDM seals or even beer foam enhancing seal life and reduction in down time
 - High resistance to many types of media such as disinfectants, cleaning agents, water, steam ensuring maximum protection of both seals and bearings, enhancing life and operating cost reduction
 - NSF H1 registered supporting process reliability
-

Description

Klüberfood NH1 87-703 Hygienic is a speciality grease based on silicone oil and PTFE.

Designed for the lubrication of technical components such as aseptic designed process equipment and formulated and manufactured to ensure a high level of cleanliness in order to reduce the risk of the introduction of contaminants.

The product is registered as NSF H1 and complies with FDA 21 CFR § 178.3570.

Application

Klüberfood NH1 87-703 Hygienic can be used as a speciality grease for the lubrication of beer dispensing taps and barrel filling equipment incorporating EPDM elastomers.

Besides for seals, Klüberfood NH1 87-703 Hygienic may also be used for very low-load rolling bearings used in the beverage industry where an EPDM-compatible food-grade H1 lubricant is required. Very low load applications with a C/P ratio of >30 and slow speeds.

Klüberfood NH1 87-703 Hygienic is resistant to cold and hot water and steam as well as to many disinfectants and cleaning agents.

The tests conducted by the Research Institute Weihenstephan confirm Klüberfood NH1 87-703 Hygienic leaves the formation of froth and taste of beer unaffected.

Application notes

Klüberfood NH1 87-703 Hygienic is applied by means of spatula, grease gun or directly from the tube. For highly viscous lubricants, the application method should be chosen with particular care. The intake of air should be avoided, otherwise oxidation may occur at high pressure which may in turn lead to disintegration of the product.

For this reason we recommend pumping the product with the lowest pressure possible and using lines with wide diameters. It may make sense to contact the manufacturer of the application equipment used.

As a rule, users should make sure to use only new high-pressure pumping lines for their lubricants.

As a precaution in the event of grease leakage, we recommend wearing suitable protection gear (e.g. safety goggles).



Klüberfood® NH1 87-703 Hygienic

Synthetic lubricating grease for valves and fittings with EPDM seals

Compatibility with materials

According to our current knowledge, Klüberfood NH1 87-703 Hygienic is compatible with EPDM, NBR and FPM.

Owing to the many different elastomer compositions, we recommend having their compatibility checked by the elastomer manufacturer prior to series application.

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.

Pack sizes

25 x 60 g tubes
750 g can
600 g cartridge
25 kg bucket

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.

Product data	Klüberfood NH1 87-703 Hygienic
Colour	white
Texture	homogeneous
Density, at 20 °C, [g/cm ³], approx	1.32
Worked penetration at 25 °C, DIN ISO 2137, [0.1 mm]	220 - 250
Apparent dynamic viscosity, viscosity grade**	S
Service temperature range*, [°C], approx	-45 to 150
NSF-H1 registration***, registration no.	136532

* 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.

** 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

*** 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

Klüber Lubrication München KG, Geisenhausenerstraße 7, 81379 München, Germany, phone +49 89 7876-0, fax +49 89 7876-333.

The data in this product information is based on our general experience and knowledge at the time of printing 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 tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.

 Klüber Lubrication, a company of the Freudenberg Group

Publisher and Copyright: Klüber Lubrication München KG. Reprints, total or in part, are permitted if source is indicated and voucher copy is forwarded.