

MILLPLEX FMG-2 US

Special synthetic grease for applications in the food industry



Benefits for your application

- **Extended bearing life and reduced down time resulting from the excellent load carrying properties**
- **No harmful ingredients present in the grease; suitable for use in food and pharmaceutical manufacturing plants**
- **Excellent wear and corrosion protection**
- **NSF H1 registration # 140747**

Description

MILLPLEX FMG-2 US is a special lubricating grease composed of a synthetic base oil and calcium sulphonate complex thickener. The use of MILLPLEX FMG-2 US, an NSF H1-registered lubricant, can contribute to a safe product regime when used in accordance with food manufacturing regulations. The lubricant was developed for incidental contact with products and packaging materials in the food-processing, cosmetics, pharmaceutical or animal feed industries.

Application

MILLPLEX FMG-2 US is used to lubricate rolling bearings in machines and installations used 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.

Application notes

MILLPLEX FMG-2 US is applied by standard commercial grease application equipment. Before applying MILLPLEX FMG-2 US, all lubrication points should be thoroughly cleaned to ensure maximum hygiene conditions exist.

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

Material safety data sheets

You can obtain material safety data sheets through your contact person at Klüber Lubrication.

Pack sizes	MILLPLEX FMG-2 US
cartridge	400 g
keg w / liner	50 kg
keg	120 lb
drum	180 kg

MILLPLEX FMG-2 US

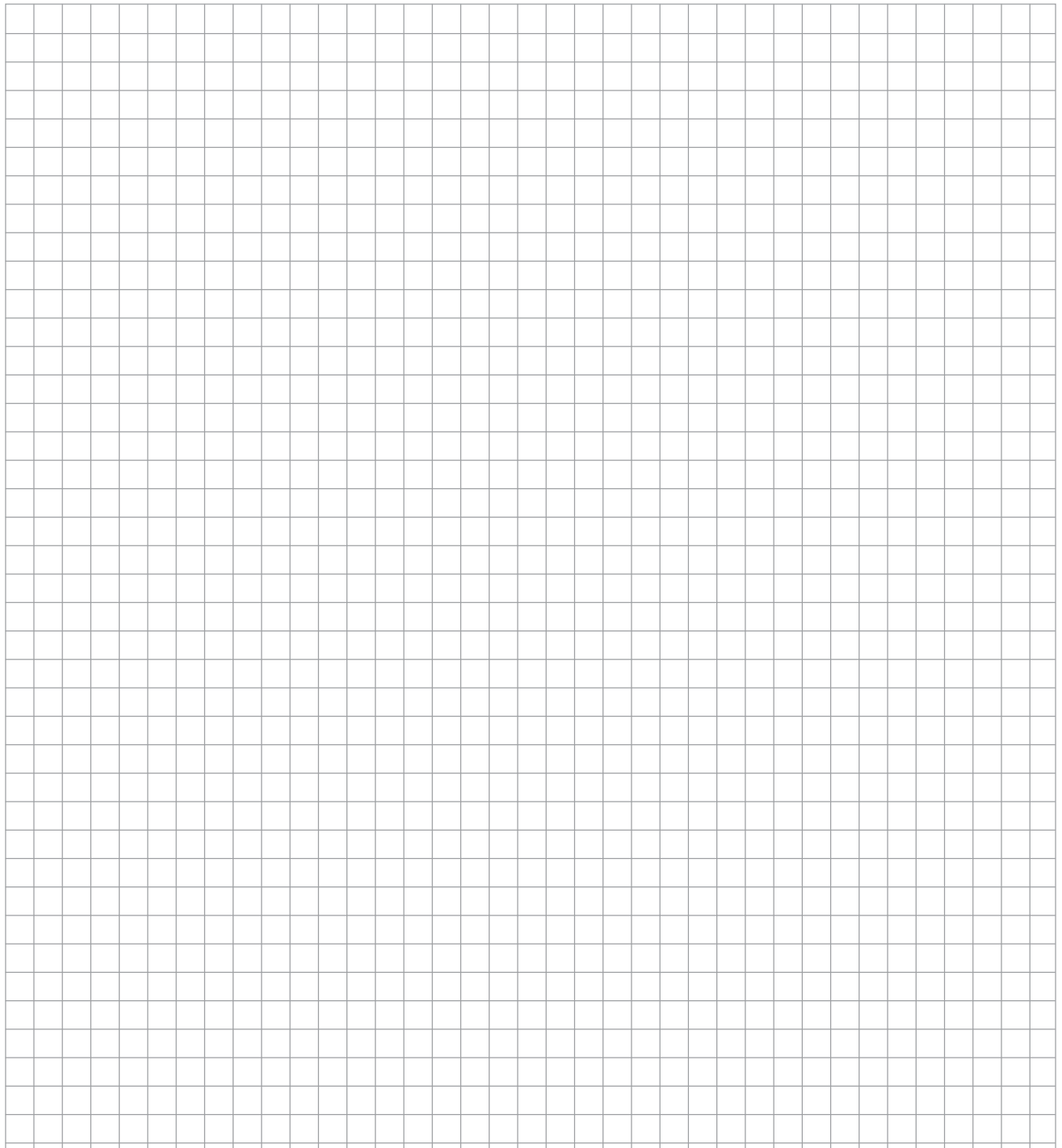
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Product data	MILLPLEX FMG-2 US
Color	beige
Service temperature range*, [°C]	-30 to 160
Density at 20 °C (g/cm ³), approx.	0.97
Drop point, DIN ISO 2179, [°C]	≥ 250
Worked penetration at 25 °C, DIN ISO 2137, [0.1mm]	280
Kinematic viscosity**, DIN 51 561 [mm ² /s] at 40 °C, approx.	400
Kinematic viscosity**, DIN 51 561 [mm ² /s] at 100 °C, approx.	40
Consistency (NLGI) Grade, DIN 51818	2
FE-8 antiwear behavior, 2 tapered roller bearings (31312 A); 500 h, Fa = 80 kN, 75 rpm, 120 °C, average rolling element wear (mg)	30***
Four-ball tester, welding force, DIN 51350 part 04, [N]	>300
Corrosion resistance, DIN 51802, (SKF-EMCOR), 1 week, dist. Water [rating]	≤ 1
Oil separation, FTMS 791 C 321 3 [ASTM D 6184], after 30 h/100 °C (wt. %)	≤ 4%
NSF Registered	H1
Minimum shelf life – if the product is stored in its unopened original container in a dry, frost-free place, approx.	24 months

*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.

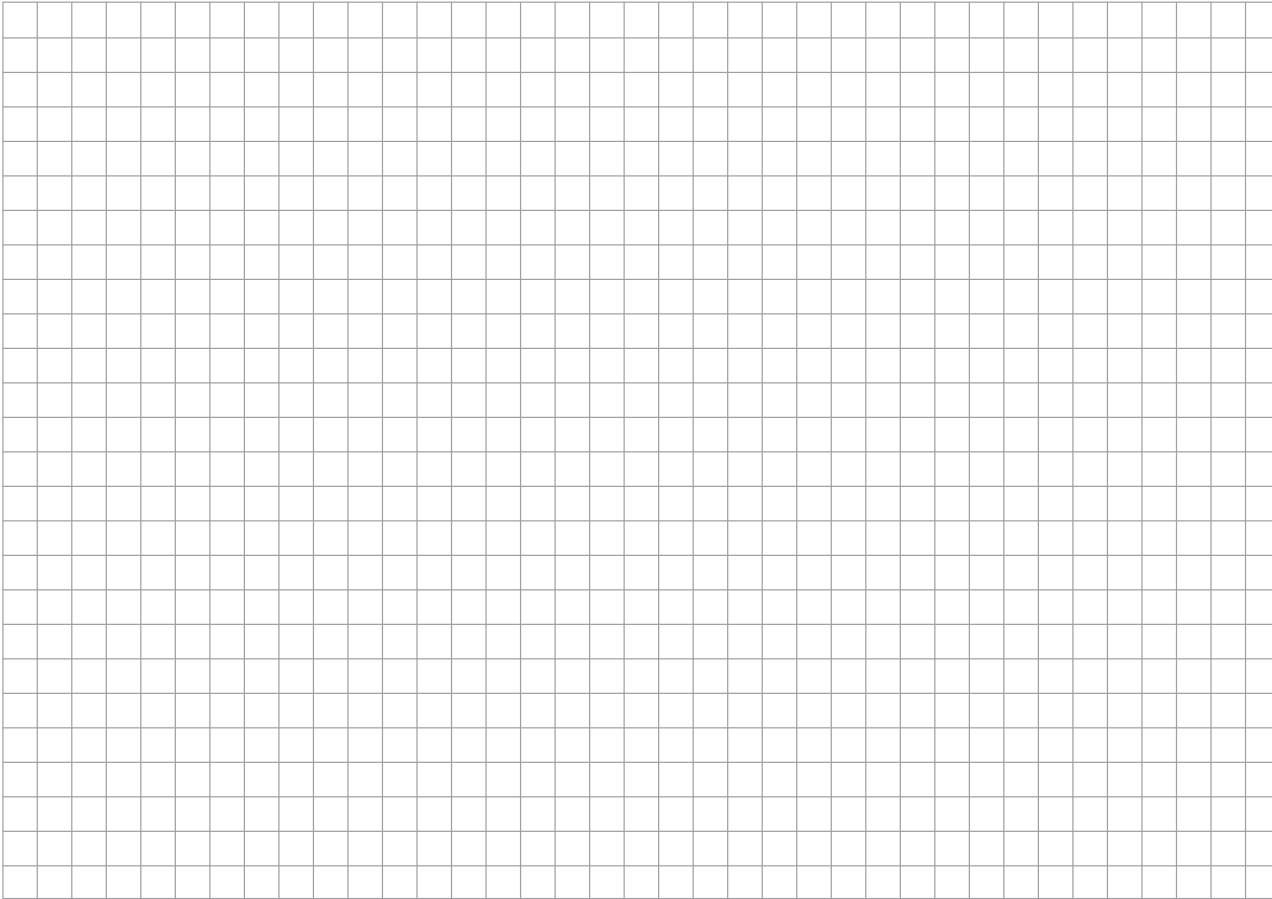
***Requirement of "heavy-duty-grease": ≤35 mg.





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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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