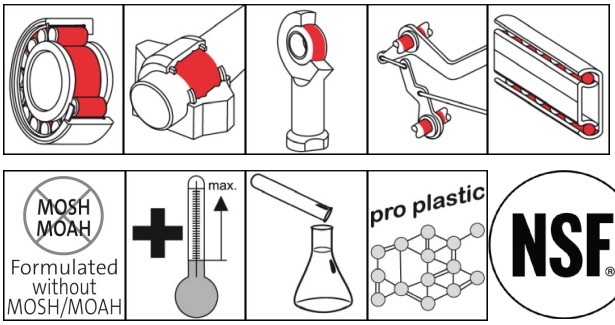


PRODUCT INFORMATION

a product brand of KLÜBER LUBRICATION

OKS 4220
Extreme-Temperature Bearing Grease



Description

Extreme-temperature grease on the basis of perfluorinated polyether oils (PFPE) for use in food processing technology at maximum loads and temperatures.

Applications

- Grease lubrication of friction and rolling bearings in the high-temperature range
- Application, for example at tunnel kiln cars, baking, burn-in and drying furnaces, hot gas units, reaction vessels, boiler plants, roller and conveyor rollers in continuous furnaces, etc.
- Use at bearing points under influence of chemicals/fuel

Branches

- Catering equipment and food processing technology
- Logistics
- Iron and steel industry
- Glass and foundry industry
- Shipbuilding and marine technology
- Plant and machine (tool) engineering
- Paper and packaging industry
- Rubber and plastic processing
- Rail vehicle technology
- Municipal services
- Chemical industry

Advantages and benefits

- Maximum water and steam resistance
- Extraordinary resistance to chemicals, for example to solvents, for example benzene, benzol, acetone, trichloroethylene and against inorganic acids, such as sulphuric acid, hydrochloric acid and nitric acid as well as stearic acids, alcohols and halogens
- Excellent plastic and elastomer compatibility
- For long-term lubrication of lubrication points subjected to high pressure up to 280°C
- Broad range of applications above the temperature limits of other lubricating greases
- Reduced maintenance and lubricant costs due to possible lifetime lubrication
- NSF H1 registered
- Formulated without MOSH/MOAH

Application tips

Thorough cleaning of the bearings from other lubricants, for example with OKS 2610/OKS 2611 universal cleaner is imperative. Subsequently blow out with dry air. Before filling for first time, remove anti-corrosion agent. Fill the bearing such that all functional surfaces are certain of being greased. Fill bearings running slowly completely, fill high-speed bearings (DN value > 150,000) only up to about 2/3 of the free space inside the bearing. The bearing and machine manufacturer's instructions should be observed. If old grease cannot be removed, restrict the quantity of grease so as to avoid overlubricating the bearing. Only mix with suitable lubricants.

© Klüber Lubrication München GmbH & Co. KG



PRODUCT INFORMATION

a product brand of KLÜBER LUBRICATION

OKS 4220
Extreme-Temperature Bearing Grease

Packaging

- 40 ml Tube
- 500 g Can
- 800 g Cartridge
- 1 kg Can
- 5 kg Hobbock
- 25 kg Hobbock

Technical data

	Standard	Conditions	Unit	Value
Main components				
base oil				perfluoropolyether (PFPE)
thickener				PTFE
solid lubricants				PTFE
Application related technical data				
marking	analogue to DIN 51 502	DIN 51 825		KFFK2U-40
Viscosity base oil	DIN 51 562-1	at 40°C	mm^2/s	390
Viscosity base oil	DIN 51 562-1	at 100°C	mm^2/s	37
drop point	DIN ISO 2176		°C	without
consistency	DIN 51 818	DIN ISO 2137	NLGI grade	2
worked penetration	DIN ISO 2137	60DH	0.1 mm	265-295
lower operating temperature	DIN 51 805	< 1,400 hPa	°C	-40
upper operating temperature			°C	280
colour				white
density	DIN EN ISO 3838	at 20°C	g/cm^3	1.92
DN value (dm x n)			mm/min	500,000
four-ball test rig welding load	DIN 51 350-4		N	> 10,000
four-ball test rig wear	DIN 51 350-5		mm	0.6
SKF-EMCOR	DIN 51 802		corr. degree	0
Properties and approvals				
UFI				3JR7-H0PU-200G-JHG9
approval for food processing technology				NSF H1, Reg.-Nr. 124380

Klüber Lubrication München GmbH & Co. KG
Geisenhausenerstraße 7 / 81379 München / Germany / phone +49 89 7876-0

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.

© Klüber Lubrication München GmbH & Co. KG