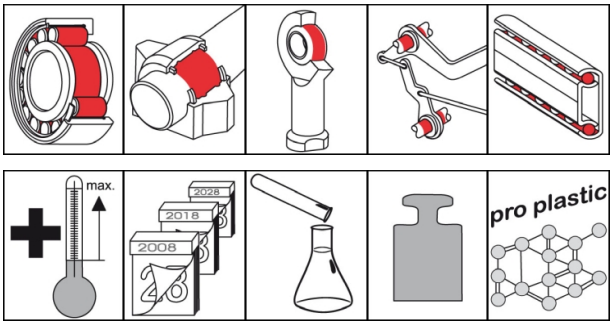


PRODUCT INFORMATION

a product brand of KLÜBER LUBRICATION

OKS 4210
Grease for Extremely High Temperatures



Description

Extreme-temperature bearing grease for use at high loads and temperatures.

Applications

- Grease lubrication of friction and rolling bearings in the high-temperature range up to 280°C
- Lubrication of 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
- Lubrication of bearings under influence of fuel

Branches

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

Advantages and benefits

- Absolutely resistant to water and steam
- Resistant to solvents, for example benzene, benzol, acetone, trichloroethylene and against inorganic acids, for example sulphuric acid, hydrochloric acid and nitric acid as well as stearic acids, alcohols and halogens
- Broad range of applications above the temperature limits of other lubricating greases
- Excellent wear protection
- Reduced maintenance and lubricant costs due to possible lifetime lubrication
- Excellent plastic and elastomer compatibility

Application tips

Thorough cleaning of the bearings from other lubricants, for example with OKS 2610/OKS 2611 universal cleaning agent 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. Specify the relubrication frequency and quantity on the basis of the conditions of use. 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 4210
Grease for Extremely High Temperatures

Packaging

- 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	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	DIN 51 821-2	F50 (A/1500/6000), 100h	°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	9,000
four-ball test rig wear	DIN 51 350-5	1.420/min, 1h, 800N	mm	0.6
SKF-EMCOR	DIN 51 802		corr. degree	0
Properties and approvals				
UFI				AFR7-100E-S000-W5W7

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