

OKS 4220 - Product Information

Fields of Application:

Grease lubrication of plain and roller bearings for extreme temperature applications, where greases based on mineral oil cannot be used anymore e.g. in tunnel ovens, hot gas aggregates, reaction chambers, furnaces and boilers, propulsive units, rollers in conveyor ovens etc.

Advantages and Benefits:

Completely resistant against water and steam and also against solvents, as against gasoline, benzene, acetone, trichlorethylene. Also resistant against anorganic acids as sulfuric, salt and nitric acid as well as fatty acids, alcohols and halogenes. Only soluble in CFC. Best use for the longterm lubrication of extreme temperature stressed lubrication points. Multifunctional applications above the temperature limits of other lubricants. Saving of maintenance and lubricant costs through a potential life-time lubrication. Registered from the NSF as H1 lubricant with the registry No 124.380 for applications in the food industry for temperatures up to 280 °C.

Application:

For best results, the careful cleaning of the lubricating point is a must. Clean with solvents like OKS 2610/OKS 2611 Universal Cleaner. Afterwards blow off with dry compressed air. Fill the bearings in a way that all the functional surfaces are lubricated sufficiently. Slow moving bearings should be filled completely, fast moving bearings (DN- value > 100,000) should be filled up to 2/3 of the free inner housing space. Observe the instructions of the bearing or machine manufacturer. Relubrication at temperatures below 200°C is not necessary, at temperatures above 250°C with OKS 3220. Relubrication intervals and amounts should be stated according to the service conditions. If the deflection of the old grease is not possible, then limit the grease amount to avoid an overlubrication of the bearing. Mix with appropriate lubricants only. For additional questions please contact our Technical Department.

Additional Information:

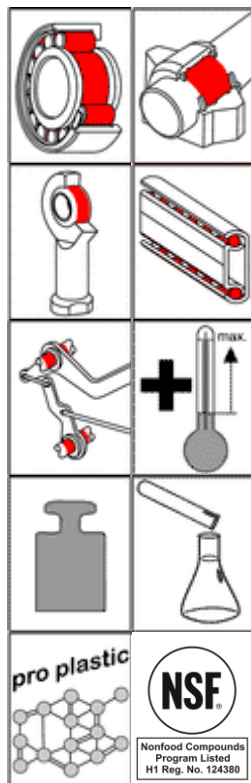
Packaging (Article number):

- 100 g Tube (04220012)
- 500 g Tin (04220031)
- 800 g Cartridge (04220019)
- 1 kg Tin (04220034)
- 5 kg Hobbock (04220050)

Version:

E-04.1/13

OKS 4220 Extreme Temperature Bearing Grease



The data in this brochure are the result of extensive testing and experience and meet the latest stage of engineering. Due to the diversity of application possibilities and technical realities they can only be recommendations and are not arbitrarily transferable; thus no obligations, liability or warranty claims can be derived herefrom. We accept liability for the fitness of our products for particular purposes and accept such liability in writing in the individual case. In any event any justified warranty claims shall be limited to the delivery of replacement goods which are free from defect or, in the event that such subsequent improvement fails, to reimbursement of the purchase price. Any and all further claims, in particular but without limitation any liability for consequent damage, shall be excluded. Prior to use own testing must be done to prove suitability. The data are subject to change for the sake of technical progress. ® = Registered Trademark



OKS 4220

Extreme Temperature Bearing Grease

Technical Data

	Norm	Conditions	Unit	Value
Classification	DIN 51 502	DIN 51 825		KFFK2U-20
Base Oil				
Type				Perfluoropolyether
Viscosity	DIN 51 562-1	+40°C	mm²/s	510
Pour point	DIN ISO 3016	3°C step	°C	-30
Flash point	DIN ISO 2592	> 79	°C	not measurable
Thickener				
Type				PTFE
Consistency	DIN 51 818	DIN ISO 2137	NLGI- class	2
Worked penetration	DIN ISO 2137	60 double strokes	0,1 mm	265 - 295
Drop point	DIN ISO 2176		°C	none
Additives				
Solid lubricants, type				PTFE
Application Data				
Density	DIN EN ISO 3838	+20°C	g/cm³	1,92
Colour				white
Service Temperatures				
Minimum service temperature	DIN 51 805	< 1.400 hPa	°C	-20
Upper service temperature	DIN 51 821-2	F ₅₀ (A/1500/6000), 100h	°C	280
Maximum service temperature			°C	300
DN- value			mm min	300.000
Corrosion Protection Tests				
SKF-EMCOR	DIN 51 802		Corr. grade 0-5	0
Wear Protection Tests				
VBT- weld load (Four ball test rig)	DIN 51 350-4		N	> 10.000
VBT-wear	DIN 51 350-5	1.420 1/min/ 1h /800 N	mm	0,6
Releases/Specifications				
Food industry				NSF H1 Reg.-no. 124 380

The data in this brochure are the result of extensive testing and experience and meet the latest stage of engineering. Due to the diversity of application possibilities and technical realities they can only be recommendations and are not arbitrarily transferable; thus no obligations, liability or warranty claims can be derived herefrom. We accept liability for the fitness of our products for particular purposes and accept such liability in writing in the individual case. In any event any justified warranty claims shall be limited to the delivery of replacement goods which are free from defect or, in the event that such subsequent improvement fails, to reimbursement of the purchase price. Any and all further claims, in particular but without limitation any liability for consequent damage, shall be excluded. Prior to use own testing must be done to prove suitability. The data are subject to change for the sake of technical progress. © = Registered Trademark