



OKS 410 - Product Information

Fields of Application:

Grease lubrication of unsheltered parts subject to heavy loading and/or impacts, such as friction, rolling and pivoting bearings, splined shafts, knockout spindles, threaded spindles and sliding surfaces of all kinds. For harsh operating conditions, e.g. in rolling mills, construction and agricultural machines, transport systems or wet operating systems in mining and port operations.

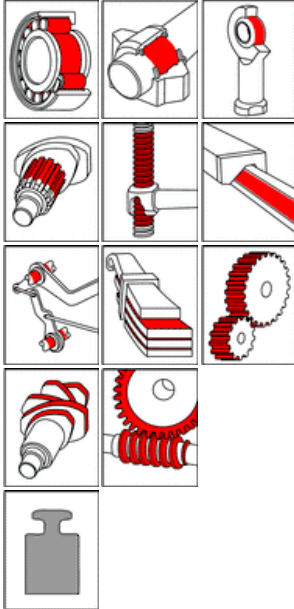
OKS 410 MoS₂ High-Pressure Long-Life Grease

Advantages and Benefits:

Excellent suited as a safety lubricating grease in mixed friction sector with especially good wear protection. Effectively protects against corrosion. Contains Mo_x active to improve performance.

Application:

For best results clean the lubricating point carefully. Clean with solvents like OKS 2610/OKS 2611 Universal Cleaner. Remove the corrosion protection ahead of the initial filling. Fill the bearings in a way that all the functional surfaces for sure get the grease. Slow moving bearings (DN-value < 50.000) should be filled completely, normal moving bearings should be filled to 1/3 of the free inner housing space. Observe the instructions of the bearing or machine manufacturer. Relubrication with a grease gun on to the grease nipples or with an automatic lubrication system. Relubrication intervals and amount to be defined acc. to the service conditions. If the removal of the old grease is not possible the amount of grease has to be limited to avoid excess lubrication of the bearing. At longer relubrication intervals a complete exchange of the old grease is recommended. Only mix with appropriate lubricants. For additional questions please contact our Technical Department.



Additional Information:

Packaging (Article number):
- 400 g Cartridge (00410019)
- 1 kg Tin (00410034)
- 5 kg Hobbock (00410050)
- 25 kg Hobbock (00410062)
- 180 kg Drum (00410070)

Version
E-01.1/06

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 410 MoS₂ High-Pressure Long-Life Grease

Technical Data

	Norm	Conditions	Unit	Value
Classification	DIN 51 502	DIN 51 825		KPF2K-20
Base Oil				
Type				Mineral oil
Viscosity	DIN 51 562-1 DIN 51 562-1	40°C 100°C	mm ² /s mm ² /s	185 14
Pourpoint	DIN ISO 3016	3°C step	°C	-20
Flash point	DIN ISO 2592	> 79	°C	> 230
Thickener				
Type				Lithiumhydroxystearate
Consistency	DIN 51 818	DIN ISO 2137	NLGI- class	2
Worked penetration	DIN ISO 2137	60 DH	0,1 mm	265 - 295
Penetration drop	DIN ISO 2137	100.000 DH	0,1 mm	< 30
Drop point	DIN ISO 2176		°C	185
Additives				
Solid lubrications, type				MoS ₂
Additive				Mo _x -Active
Application Data				
Density	DIN EN ISO 3838	+20°C	g/cm ³	0,92
Colour				grey
Service Temperatures				
Minimum service temperature	DIN 51 805	< 1.400 hPa	°C	-20
Upper service temperature	DIN 51 821-2	F ₅₀ (A/1500/600), 100h	°C	130
Maximum service temperature			°C	140
DN- value			mm/min	500.000
Water resistance	DIN 51 807-1		Grade 1-3	1 - 90
Corrosion protection tests				
SKF-EMCOR	DIN 51 802		Corr.-grade 1-5	0 and 0
Mechanical / dynamic tests				
SKF-R2F, running test A	DIN 51 806	2500 min-1, 20 d, °C		passed
SKF-R2F, running test B	DIN 51 806	1500 min-1, 20 d, 120°C		passed
Wear protection tests				
VBT- weld load (Four ball test rig)	DIN 51 350-4		N	3.600
VBT- wear	DIN 51 350-5	1.420 U/min/1 h/800 N	mm	0,4
Timken	SEB 181 302	43 lbs	mg	> 5

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