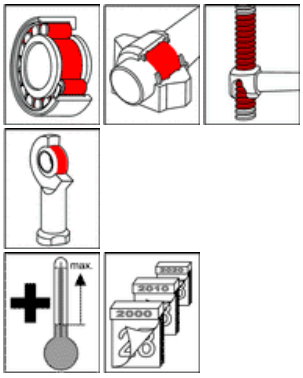
OKS 1148 - Product Information

OKS 1148
Long-term Silicone Grease, with PTFE



Fields of Application:

Lubrication of rolling bearings at operating temperatures from +150°C to +200 °C under low to medium bearing loads. For long-term lubrication of temperature-stressed electric motor bearings, e.g. in household appliances or of bearings which are to start up easily at low temperatures. Initial lubrication of rolling bearings, e.g. ball bearings open or closed on one side only, especially for achieving a long-term lubrication of ball bearings sealed off on both sides.

Advantages and Benefits:

Highly effective due to optimum temperature-stable silicone grease formula. Excellently suited for reducing friction and wear. Protects rolling bearings against dust, dirt, corrosion, water and moisture in grease lubricating points subject to changing temperature loads. Resistant to oxidation, water, water vapour, animal, vegetable and mineral oils, as well as to vapours of organic acids.

Application:

For best results, clean lubricant point carefully, e.g. with OKS 2610 or 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. Bearings filled with silicon grease must not have higher loads than 1/3rd of the bearing´s permitted load. Silicone-based plastics, e.g. silicone rubber, can be dissolved by silicone grease. Silicone grease must not be applied to sliding surfaces under influence of pure oxygen. For additional questions please contact our Technical Department.

Additional Information:

Packaging (Article number):
- 500 g Tin (01148031)
- 5 kg Hobbock (01148050)
- 25 kg Hobbock (01148062)

Version:
E-07.1/07

OKS 1144
Multipurpose Silicone Grease

Technical Data

	Norm	Contitions	Unit	Value
Classification	DIN 51 502	DIN 51 825		KSI2S-40
Base Oil				
Type				Polyphenylmethylsiloxane
Viscosity	DIN 51 562-1	+25°C	mm^2/s	125
Flash point	DIN ISO 2592	> 79	°C	> 250
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
Drop point	DIN ISO 2176		°C	> 210
Oil separation	DIN 51 817	7d/40°C	Weight-%	1,4
Oxidation resistance	DIN 51 808	100h/99°C	bar	0,1
Application Data				
Density	DIN EN ISO 3838	+20°C	g/cm^3	1,05
Colour				beige
Service Temperatures				
Minimum service temperature			°C	-40
Maximum service temperature			°C	200
DN- value			mm min	300.000
Wear Protection Tests				
VBT-weldload (Four ball test rig)	DIN 51 350-4		N	1.100

OKS 1148
Long-term Silicone Grease, with PTFE

Technical Data

	Norm	Conditions	Unit	Value
Classification	DIN 51 502	DIN 51 825		KFSI2S-40
Base Oil				
Type				Polyphenylmethylsiloxane
Viscosity	DIN 51 562-1 DIN 51 562-1	40 °C 100 °C	mm²/s mm²/s	170 30
Evaporation loss	DIN 58 397-1	24h/150°C	Weight-%	3,0
Thickener				
Type				Lithium complex soap
Consistency	DIN 51 818	DIN ISO 2137	NLGI- class	2
Worked penetration				265 - 295
Drop point	DIN ISO 2176		°C	> 300
Oil separation	DIN 51 817	18h/40 °C	Weight-%	< 3
Oxidation resistance	DIN 51 808	100h/100°C	bar	0,03
Additives				
Solid lubricants, type				PTFE
Amount				5 %
Application Data				
Density	DIN EN ISO 3838	+20°C	g/ml	1,15
Colour				light-coloured
Service Temperatures				
Minimum service temperature	DIN 51 805	< 1.400 hPa	°C	-40
Maximum service temperature	DIN 51 821-2	F_{50} (A/1500/600), 100h	°C	200
DN- value			mm min	350.000
Water resistance	DIN 51 807-1	+90°C	Grade 1-3	1 - 90
Corrosion Protection Tests				
SKF-EMCOR	DIN 51 802		Corr.-Grade 1-5	0 and 0
SKF-EMCOR, on copper	DIN 51 811	24h/100°C	Corr.-Grade 1-5	1,0
Wear Protection Tests				
VBT-weldload (Four ball test rig)	DIN 51 350-4		N	2.400
VBT-wear	DIN 51 350-5	1.420 U/min/1 h/800 N	mm	2,0