



Agip GR SM

Special lubricating grease based on lithium soap with MoS₂.

Characteristics (typical figures):

Agip GR SM	Unit		Test method
NLGI consistency class		2	DIN 51 818
Thickener		Li 12 Hydroxistearat with MoS ₂	
Working temperature range	°C	-35 to +130	
Drop point	°C	ca. 185	DIN ISO 2176
Behaviour against water	Step	1 - 90	DIN 51 807 T. 1
Rating at test temperature			
Designation		KPF 2K -30	DIN 51 502

Properties and Performance:

Agip GR SM is based on a high-quality lithium soap grease that is used as carrier for the solid lubricant component MoS₂. It excels with an extreme water resistance, so it is suitable for lubrication points, which are exposed to the ingress of water or humidity. Its worked stability, the high ageing resistance as well as suitable oxidation inhibitors take care, that the regreasing intervals can be prolonged by a multiple.

The solid component MoS₂ complements the properties of the lubricating grease in the area of the mixed friction.

Molybdenum disulphide has the property to anchor itself at the sliding surfaces and to form an absolutely pressure and temperature resistant sliding film, which prevents a metallic contact of the friction faces and therefore significantly reduces friction and wear.

Applications:

Agip GR SM is suitable for highly loaded, slow running sliding bearings, which work under most difficult conditions. Also for roller bearings, especially for bevel and pendulum roller bearings, which are naturally loaded with a higher sliding portion. Proven as uniform lubricant on construction sites for the heaviest machines and for unapproachable lubrication points, which cannot be regreased during the operation and require dry running properties.

Furthermore for lubrication points that are located in the area of the mixed friction, e. g. oscillating movements of vibration stressed bearings at vibration rollers etc. Furthermore for intermittent loads at unfavourable active agent pairing, like steel on steel. As break-in grease it shortens the break-in process with an outstanding smoothing effect.

If possible a mixture with greases of different soap basis has to be avoided since the special qualities can be lost.

Please observe the manufacturer's specifications when selecting products.



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Additional physical-technical data:

Agip GR SM	Unit		Test method
Worked penetration	0,1 mm	265 - 295	DIN ISO 2137
Corr. protection properties accord. to the SKF-Emcor-procedure	Corr.-grade	0 and 0	DIN 51 802
Corrosion effect on copper at 120°C	Corr.-grade	1 - 100	DIN 51 811
Testing with the SKF-roller bearing grease test machine: Running test B passed at test temperature	°C	120	DIN 51 806
VKA welding test	N	4200	DIN 51 350 T. 4
Designation		KPF 2 K -30	DIN 51 502

Specifications:

DIN 51 825 T.3
KPF 2K -30