MOLYKOTE® G-0102 High Load Bearing Grease

Heavy-duty bearing grease for applications in presence of water and moisture

Features & benefits

- Excellent water resistance
- Extreme-pressure capability
- Good corrosion-preventive properties
- Excellent thermal stability

Composition

- Calcium complex thickener
- Mineral base oil
- Corrosion inhibitor
- EP additives

Applications

Water processing, watergates and sluices, chemical industries (cooling, condensing), and steel mills and the mining industry.

Description

MOLYKOTE® G-0102 High Load Bearing Grease is a mineral-oil-based grease thickened by a calcium complex system. It can be used in a wide temperature range and offers excellent resistance against water washout. MOLYKOTE® G-0102 Grease provides premium protection against wear and corrosion.

How to use

Apply using conventional grease application methods (i.e., clean brush, grease gun, and manual or automated dispensing equipment).

Handling precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Usable life and storage

When stored between 0 and 40°C in the original unopened containers, this product has a usable life of 60 months from the date of production.

Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE® sales representative prior to writing specifications on this product.

Standard(1)	Test	Unit	Result
	Color		Brown
DIN 51 825	Codification		KP2N-25
	Base oil type		Mineral oil
	Thickener type		Calcium complex
Consistency, viscosity			
DIN 51 818	Consistency	NLGI Class	2
ISO 2137	Worked penetration	mm/10	275-295
DIN 51 562	Base oil viscosity at 40°C	mm^2/s	150
DIN 51 562	Base oil viscosity at 100°C	mm^2/s	10.2
Temperature			
	Service temperature range	°C	-25 to +140
		°F	-13 to +284
ISO 2176	Dropping point	°C (°F)	240 min. (464 min.)
ASTM D1478-63	Low-temperature torque at -20°C starting/running	Nm x 10^{-3}	106/50
Oil separation			
DIN 51 817	Oil separation (168 hrs/40°C)	Mass-%	<4
DIN 51 808	Oxidation stability, pressure drop (100 hrs/99°C)	Bar (psi)	0.5 (7.25)
Load carrying capacity, wear protection, speed			
DIN 51 819	FE8 (7.5 min^{-1}/80 kN/ 500 hrs/80°C)		
	Roller elements	mw_{50} [mg]	<50
	Cage	mw_{50} [mg]	<100

(1)DIN: Deutsche Industrie Norm. ISO: International Standardization Organization. ASTM: American Society for Testing and Materials.

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Typical properties (continued)

Standard[1]	Test	Unit	Result
DIN 51 821-1	FE9 (3,000 rpm/1,500 N/ 140°C)	F_{50} [hrs]	>100
DIN 51 350-4	Four ball tester weld load	N	3,000
DIN 51 350	Wear scar under 400 N/600 N/800 N load	mm	0.55/0.77/ 0.96
ASTM D2509	Timken OK-load	lb	45
	DN value		450,000
Stability			
DIN 51 807-1	Against water at 90°C	Level	0-90
DIN 51 805	Flow pressure at -25°C	Bar (psi)	<1.4 (<20.3)
DIN 51 802	Emcor corrosion preventive	Level	0/1
DIN 51 811	Copper corrosion	Level	0-120

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Packaging

This product is available in different standard container sizes. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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