MOLYKOTE® G-6000 High Temperature Bearing Grease

High-performance bearing grease for use at extremely high temperatures

Features & benefits

- Extreme high-temperature properties
- Good low-temperature behavior
- Good corrosion-preventive properties
- High mechanical stability

Composition

- Polyurea thickener
- Synthetic base oil (phenyl ether)
- Corrosion inhibitor

Applications

Bearings operating at high temperatures; automobile electrical accessories; equipment exposed to radiation; bearings operating under high mechanical stress.

Description

MOLYKOTE® G-6000 High Temperature Bearing Grease is a synthetic oil-based grease thickened with polyurea. It can be used at extreme high temperatures and offers excellent low-temperature behavior. Due to the polyurea thickener, it is also very stable to mechanical shear. MOLYKOTE® G-6000 High Temperature Bearing Grease is well-suited for applications exposed to radiation.

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.

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		Light brown
	Base oil type		Phenyl ether
	Thickener type		Polyurea
Consistency, viscosity			
DIN 51 818	Consistency	NLGI class	2
ASTM D217	Worked penetration	mm/10	280
ASTM D445	Base oil viscosity at 40°C	mm^2/s	103
Temperature			
	Service temperature range	°C °F	-40 to +200 -40 to +392
ASTM D566	Dropping point	°C (°F)	> 260 (> 500)
Low-temperature torque			
ASTM D1478-63	at -30°C starting/running	Nm x 10^{-3}	300/180
ASTM D1478-63	at -40°C starting/running	Nm x 10^{-3}	354/80
Oil separation			
FTMS 791C-321	Oil separation (24 hrs/100°C)	mass-%	1.2
ASTM D942	Oxidation stability, pressure drop (100 hrs/99°C)	bar psi	0.1 1.45

[1] DIN: Deutsche Industrie Norm. ASTM: American Society for Testing and Materials. FTMS: Federal Test Method Standard. ISO: International Standardization Organization.

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Typical properties (continued)

Standard[1]	Test	Unit	Result
Load-carrying capacity, wear protection, stability			
DIN 51 350-4	Four ball tester weld load	N	1,300
DIN 51 350	Wear scar under 400 N load	mm	0.76
ASTM D1743-73	Corrosion preventive properties (48 h, 52°C)	level	#1
ASTM D4048	Copper strip corrosion (24 h, 100°C)		Pass
ISO 11 007	Emcor standard, dist. water		0–0

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Usable life and storage

When stored between 0 and 35°C in the original unopened containers, this product has a usable life of 12 months from the date of production.

Packaging

This product is available in 400 g cartridges, 16 kg pails (U.S. only), 25 kg pails (Europe only), and 18 kg drums.

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