MOLYKOTE® G-2003 High Performance Grease

Lithium-thickened grease based on synthetic hydrocarbon

Features

- Excellent low-temperature properties
- Good water resistance
- Suitable for long-term lubrication by virtue of low oil evaporation and low tendency towards oxidation
- Compatible with most plastics and elastomers

Composition

- Polyalphaolefin oil
- Lithium thickener
- Oxidation inhibitors
- Solid lubricants

Applications

High-performance grease for plastic/metal and plastic/plastic combinations involving medium-fast movements and medium loadings.

Description

MOLYKOTE® G-2003 High Performance Grease is a silicone-free synthetic-oil-based grease thickened by a lithium soap. MOLYKOTE® G-2003 High Performance Grease offers excellent low-temperature properties. It provides premium long-term lubrication due to special solid lubricants.

How to use

Apply using conventional grease application methods (e.g., 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		Beige
Consistency, viscosity			
DIN 51 818	Consistency NLGI Class		2
ISO 2137	Worked penetration	mm/10	265-295
ISO 2811	Density at 20°C	g/ml	0.95
DIN 51 562	Base oil viscosity at 40°C	mm²/s	35
Temperature			
	Service temperature range	°C	-50 to +140
ISO 2176	Dropping point	°C	> 190
DIN 51805	Kesternich method – flow pressure at -35°C	mbar	< 450
ASTM D147880	Low-temperature torque at -40°C		
	Starting torque	Nm	75 x 10^{-3}
	Torque after 20 minutes running time	Nm	60 x 10^{-3}
Resistance, corrosion protection			
DIN 510808	Oxidation resistance, pressure drop 100 h, 99°C	bar	0.1
DIN 51807	Water resistance, 3 hrs/90°C		0
DIN 51802	SKF-Emcor method	degree of corrosion	0
Load-carrying capacity, wear protection, speed			
DIN 51 350-4	Four ball tester, weld load	N	2,200
DIN 51 350-5	Four ball tester, wear scar at 300 N	mm	0.6

[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
Oil separation/evaporation			
DIN 51 817	Oil separation (7 d/40°C)	Mass-%	2.9
ASTM D 972	Evaporation loss (24 hrs/100°C)	Mass-%	0.1

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

Usable life and storage

MOLYKOTE® G-2003 High Performance Grease has a usable life of 60 months when stored at or below 20°C in the original unopened containers.

Packaging

MOLYKOTE® G-2003 High Performance Grease is supplied in 900 g cans and 25 kg pails. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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