



MOLYKOTE® G-2001 High Speed Bearing Grease

Lithium-thickened bearing grease based on synthetic hydrocarbon

Features & benefits

- Wide service-temperature range
- Usable for high speeds
- Excellent low-temperature properties
- Excellent temperature-consistency profile
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

Composition

- Synthetic base oil
- Lithium-calcium thickener
- Corrosion inhibitors

Applications

High-speed bearings, spindles, fast-moving positioners, moulding cutters, chemical industry and paper processing.

Description

MOLYKOTE® G-2001 High Speed Bearing Grease is a synthetic-oil-based grease thickened by a lithium-calcium system. MOLYKOTE® G-2001 Grease offers excellent low-temperature performance. MOLYKOTE® G-2001 Grease provides premium protection against wear and corrosion. The absence of solid lubricants makes MOLYKOTE® G-2001 Grease well-suited for small- to medium-sized rolling element bearings at high speeds.

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		Beige
	Base oil type		PAO
	Thickener type		Lithium-calcium soap

Consistency, viscosity

DIN 51 818	Consistency	NLGI Class	2
ISO 2137	Worked penetration	mm/10	265-295
DIN 51 562	Base oil viscosity at 40°C	mm ² /s	35
DIN 51 562	Base oil viscosity at 100°C	mm ² /s	6

Temperature

	Service temperature range	°C	-50 to +130
		°F	-58 to +266
ISO 2176	Drop point	°C (°F)	>190 (>374)
DIN 51 805	Flow pressure at -35°C	mbar (psi)	450 (6.5)
DIN 51 805	Flow pressure at -50°C	mbar (psi)	<1,400 (<20.3)
ASTM D1478-63	Low-temperature torque		
	-20°C starting/running	Nm x 10 ⁻³	53/53
	-40°C starting/running	Nm x 10 ⁻³	106/106

Oil separation

DIN 51 817	Oil separation (18 hrs/40°C)	Mass-%	<2.5
	Evaporation loss (30 hrs/ 100°C)	Mass-%	0.6
DIN 51 808	Oxidation stability, pressure drop (100 hrs/ 99°C)	bar	<0.8

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

Continued on next page

Typical properties (continued)

Standard ⁽¹⁾	Test	Unit	Result
Load-carrying capacity, wear protection, speed			
DIN 51 821-1	FE9 (6,000 rpm / 1,500 N/ 130°C)	F ₅₀ [hrs]	175
DIN 51 350-4	Four ball tester weld load	N	1,500
DIN 51 350	Wear scar under 400 N load	mm	0.69
	DN value (D _R x rpm)		900,000
DIN 51 802	SKF EMCOR		0-0
ASTM D4048	Copper corrosion (24 hrs/100°C)	Level	1

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

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.

Packaging

This product is available in different standard container sizes as shown on [molykote.com](https://www.molykote.com). Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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