

# Product Information

## High Performance Lubricants

# Molykote® G-2001

## High Speed Bearing Grease

### FEATURES

- Wide service temperature range
- Usable for high speeds
- Excellent low temperature properties
- Excellent temperature-consistency profile

### COMPOSITION

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

**Lithium thickened bearing grease based on synthetic hydrocarbon**

### APPLICATIONS

- High speed bearings
- Spindles
- Fast moving positioners
- Moulding cutters
- Chemical industry and paper processing

### TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Standard	Test	Unit	Value
	Color		Beige
	Base oil type		PAO
	Thickener type		Lithium-calcium soap
	<b>Consistency, Viscosity</b>		
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 <sup>2</sup> /s	35
DIN 51 562	Base oil viscosity at 100°C	mm <sup>2</sup> /s	6
	<b>Temperature</b>		
	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	<1400 (<20.3)
ASTM D 1478-63	<b>Low Temp Torque</b>		
	at -20°C starting / running	Nm x 10 <sup>-3</sup>	53 / 53
	at -40°C starting / running	Nm x 10 <sup>-3</sup>	106 / 106
	<b>Oil Separation</b>		
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
	<b>Load Carrying Capacity, Wear Protection, Speed FE9</b>		
DIN 51 821-1	(6000 rpm/ 1500N/ 130°C)	F <sub>50</sub> [hrs]	175
DIN 51 350-4	Four Ball Tester Weld load	N	1500
DIN 51 350	Wear Scar under 400N load	mm	0.69
	DN value (D <sub>R</sub> x rpm)		900,000
DIN 51 802	SKF EMCOR		0 - 0
ASTM D 4048	Copper Corrosion (24 hrs/ 100°C)	Level	1

CTM: Corporate Test Method, copies of CTM's are available on request.

ASTM: American Society for Testing and Materials.

## DESCRIPTION

*Molykote*<sup>®</sup> G-2001 is a synthetic oil-based grease thickened by a lithium-calcium system. *Molykote*<sup>®</sup> G-2001 offers excellent low temperature performance. *Molykote*<sup>®</sup> G-2001 provides premium protection against wear and corrosion. The absence of solid lubricants makes *Molykote*<sup>®</sup> G-2001 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. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at [www.dowcorning.com](http://www.dowcorning.com). You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

## 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 400g cartridges, 16kg pails (US only), 25kg pails (Europe only), 180kg drums.

## LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## HEALTH AND ENVIRONMENTAL INFORMATION

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [www.dowcorning.com](http://www.dowcorning.com) or consult your local Dow Corning representative.

## LIMITED WARRANTY INFORMATION - PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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