

# Product Information

## High Performance Lubricants

# Molykote® G-0100

## Multipurpose Bearing Grease

### FEATURES

- Wide temperature range
- Low noise performance
- Excellent corrosion-preventive properties
- Variable speed

### COMPOSITION

- Polyurea thickener
- Mineral base oil
- Corrosion inhibitor

### Multipurpose Polyurea thickened bearing grease

### APPLICATIONS

- Electrical motors
- Fan bearings
- Water pump bearings
- Dryers in chemical and paper industries

### 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
DIN 51 825	Color		Yellowish beige
	Codification		K2N -40
	Base oil type		Mineral oil
	Thickener type		Polyurea
	<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	96
DIN 51 562	Base oil viscosity at 100°C	mm <sup>2</sup> /s	10.5
	<b>Temperature</b>		
	Service temperature range	°C	-40 to +170
		°F	-40 to +338
ISO 2176	Dropping point	°C (°F)	> 250 (> 482)
ASTM D 1478-63	<b>Low Temp Torque</b>		
	at -20°C starting / running	Nm x 10 <sup>-3</sup>	0.27 / 0.1
	at -40°C starting / running	Nm x 10 <sup>-3</sup>	552 / 37
	<b>Oil Separation</b>		
FTMS 791C-321	Oil separation (24 hrs/ 100°C)	Mass-%	1.5
ASTM D 972	Evaporation loss	Mass-%	0.3
DIN 51 808	Oxidation stability, pressure drop (100 hrs/ 99°C)	bar psi	0.01 0.15
	<b>Load Carrying Capacity, Wear Protection, Speed</b>		
DIN 51 821-1	<b>FE9</b> (6000 rpm/ 1500N/ 160°C)	F <sub>50</sub> [hrs]	100
ASTM D 3336-86	Bearing Life Test (10,000rpm/ 66.7N/ 150°C)	L <sub>50</sub> [hrs]	1600
DIN 51 350-4	Four Ball Tester Weld load	N	1600
DIN 51 350	Wear scar under 400 N load DN value (D <sub>R</sub> x rpm)	mm	0.75 600,000
Anderon test	Bearing noise profile test	H [no./120s]	0
	H-Band/ M-Band	M [no./120s]	0
ISO 11 007	Emcor standard, dist. water		0 - 0
	SKF Emcor, standard, synthetic sea water		0 - 0

ASTM: American Society for Testing and Materials.

DIN: Corporate Deutsche Industrie Norm.

ISO: International Standardization Organization.

## DESCRIPTION

*Molykote*<sup>®</sup> G-0100 is a mineral oil based grease thickened by a ureasystem. *Molykote*<sup>®</sup> G-0100 offers excellent low temperature properties and low noise characteristics.

*Molykote*<sup>®</sup> G-0100 provides premium rust prevention and due to its polyurea thickener superior shear and oxidation stability.

## 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.

Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

**DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

*We help you invent the future.*<sup>™</sup>

[www.dowcorning.com](http://www.dowcorning.com)

## VERTRIEB:

**SAS Industriehandel**  
Heike Engelbrecht

Meinsdorfer Straße 48  
DE 06862 Dessau-Roßlau

Tel.: +49 34901 5120  
[engelbrecht@sas-industrie.de](mailto:engelbrecht@sas-industrie.de)