

Product Information

High Performance Lubricants

Molykote® G-6000

High Temperature Bearing Grease

FEATURES

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

COMPOSITION

- Polyurea thickener
- Synthetic base oil (Phenylether)
- Corrosion inhibitor

High performance bearing grease for use at extreme high temperatures

APPLICATIONS

- Bearings operating at high temperatures
- Automobile electrical accessories
- Equipment exposed to radiation
- Bearings operating under high mechanical stress

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		Light brown
	Base oil type		Phenylether
	Thickener type		Polyurea
	Consistency, Viscosity		
DIN 51 818	Consistency	NLGI Class	2
ASTM D 217	Worked penetration	mm/10	280
ASTM D 445	Base oil viscosity at 40°C	mm ² /s	103
	Temperature		
	Service temperature range	°C	-40 to +200
		°F	-40 to +392
ASTM D 566	Dropping point	°C (°F)	> 260 (>500)
ASTM D 1478-63	Low Temp Torque		
	at -30°C starting / running	Nm x 10 ⁻³	300 / 180
	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 D 942	Oxidation stability, pressure drop (100 hrs/ 99°C)	bar	0.1
		psi	1.45
	Load Carrying Capacity, Wear Protection, Stability		
DIN 51 350-4	Four Ball Tester Weldload	N	1300
DIN 51 350	Wear scar under 400N load	mm	0.76
ASTM D 1743-73	Corrosion preventive properties (48h, 52°C)	Level	#1
ASTM D 4048	Copper Strip Corrosion (24h, 100°C)		pass
ISO 11 007	Emcor standard, dist. water		0 – 0

ASTM: American Society for Testing and Materials.

DIN: Corporate Deutsche Industrie Norm.

ISO: International Standardization Organization.

DESCRIPTION

Molykote[®] G-6000 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 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. 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. 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 36 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 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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www.dowcorning.com

VERTRIEB

SAS Industriehandel
Heike Engelbrecht

Meinsdorfer Straße 48
DE 06862 Dessau-Roßlau

Tel.: +49 34901 512 0
Fax: +49 34901 512 11
engelbrecht@sas-industrie.de