

Product Information

High Performance Lubricants



Molykote[®] G-6000 High Temperature Bearing Grease

FEATURES & BENEFITS

- 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.

Test*	Property	Unit	Result
	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)
Low Temp Torque			
ASTM D 1478-63	at -30°C starting/running	Nm x 10 ⁻³	300/180
ASTM D 1478-63	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 psi	0.1 1.45

*ASTM: American Society for Testing and Materials
 DIN: Corporate Deutsche Industrie Norm
 FTMS: Federal Test Method Standard

DESCRIPTION

Molykote[®] G-6000 High

Temperature Bearing Grease 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 High

Temperature Bearing Grease 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 IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored between 0 and 35°C in the original unopened containers, this product has a usable life of 12 months from the date of production.

PACKAGING INFORMATION

This product is available in 400 g cartridges, 16 kg pails (US only), 25 kg pails (Europe only), and 18 kg drums.

TYPICAL PROPERTIES (continued)

Test*	Property	Unit	Result
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

*ISO: International Standardization Organization

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, 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 our 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 our products will meet the 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.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, 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.[™]

molykote.com