

Product Information

High Performance Lubricants

DOW CORNING

Molykote® G-0102 High Load Bearing Grease

FEATURES & BENEFITS

- Excellent water resistance
- Extreme pressure capability
- Good corrosion preventive properties
- Excellent thermal stability

COMPOSITION

- Calcium complex thickener
- Mineral base oil
- Corrosion inhibitor
- EP-Additives

Heavy duty bearing grease for applications in presence of water and moisture

APPLICATIONS

- Water processing
- Watergates and sluices
- Chemical industries (cooling, condensing)
- Steel mills and mining Industry

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 ¹	Property	Unit	Result
DIN 51 825	Color		Brown
	Codification		KP2N-25
	Base oil type		Mineral oil
	Thickener type		Calcium complex
	Consistency, Viscosity		
DIN 51 818	Consistency	NLGI Class	2
ISO 2137	Worked penetration	mm/10	275 - 295
DIN 51 562	Base oil viscosity at 40°C	mm ² /s	150
DIN 51 562	Base oil viscosity at 100°C	mm ² /s	10.2
	Temperature		
	Service temperature range	°C	-25 to +140
		°F	-13 to +284
ISO 2176	Dropping point	°C (°F)	240minimum (464 minimum)
ASTM D 1478-63	Low Temperature Torque at -20°C starting / running	Nm x 10 ⁻³	106 / 50
	Oil Separation		
DIN 51 817	Oil Separation (168 hrs/40°C)	Mass-%	<4
DIN 51 808	Oxidation stability, pressure drop (100 hrs/ 99°C)	Bar	0.5
		psi	7.25
	Load Carrying Capacity, Wear Protection, Speed		
DIN 51 819	FE8 (7,5min ⁻¹ / 80kN/ 500 hrs/ 80°C)		
	Roller elements	mw ₅₀ [mg]	<50
	Cage	mw ₅₀ [mg]	<100
DIN 51 821-1	FE9 (3000 rpm/ 1500N/ 140°C)	F ₅₀ [hrs]	>100
DIN 51 350-4	Four Ball Tester Weld load	N	3000
DIN 51 350	Wear Scar under 400N/600N /800N load		
		mm	0.55/ 0.77/ 0.96
		Lbs	45
ASTM D 2509	Timken OK-load		
	DN value		450,000

TYPICAL PROPERTIES (Continued)

Test	Property	Unit	Result
	Stability		
DIN 51 807-1	Against water at 90°C	Level	0 - 90
DIN 51 805	Flow pressure at -25°C	bar (psi)	< 1.4 (<20.3)
DIN 51 802	Emcor corrosion preventive	Level	0 / 1
DIN 51 811	Copper corrosion	Level	0 - 120

¹DIN: Deutsche Industrie Norm.

ISO: International Standardization Organization.

ASTM: American Society for Testing and Materials.

DESCRIPTION

Molykote® G-0102 High Load Bearing Grease is a mineral oil based grease thickened by a calcium complex system. It can be used in a wide temperature range and offers excellent resistance against water wash out. *Molykote* G-0102 Grease provides premium protection against wear and corrosion.

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 MATERIAL 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 DOW CORNING.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 40°C in the original unopened containers, this product has a usable life of 60 months from the date of production.

PACKAGING

INFORMATION

This product is available in different standard container sizes. Detailed container size information should be obtained from your nearest Dow Corning sales office or Dow Corning distributor.

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.

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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.

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