

Product Information

Specialty Lubricants

DOW CORNING

Molykote® G-4700 Extreme Pressure Synthetic Grease

FEATURES

- Wide service temperature range
- Compatible with many plastics and elastomers
- Meets Cincinnati Machine P-64, and NLGI GC-LB
- Fully synthetic base oil

BENEFITS

- Formulated to provide higher load carrying capacity, greater wear resistance and longer service life compared to conventional petroleum-based lubricants
- Provides good compatibility with most industrial and engineering substrates including many plastic and rubber materials
- Designed to handle extreme loads and applications involving vibration and/or shock loading
- Excellent low temperature torque

COMPOSITION

- PAO base oil
- Lithium complex thickener
- Fortified with molybdenum disulfide (MoS₂)

APPLICATIONS

- General purpose light consistency black synthetic grease can be used in rolling element and plain bearings, pivot pins, cams, guides, ways, drive screws, gears, splines and other machine elements.

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
Consistency, Viscosity, Specific Gravity			
DIN 51 818	NLGI consistency class		2
ASTM D217	Penetration at 25°C (77°F) (W/60)	mm/10	265-295
ASTM D445	Base oil viscosity at 40°C (104°F)	cSt	150
ASTM D445	Base oil viscosity at 100°C (212°F)	cSt	20
ISO 2811	Specific gravity at 25°C (77°F)	g/ml	0.87
Temperature			
	Temperature range (approximate)	°C	-40 to 177
		°F	-40 to 350
ASTM D2265	Dropping point	°C	>285
		°F	>545
FD 791-32/2	Oil bleed, 24 hours, 100°C (212°F)	wt%	3.9
FD 791-32/2	Oil evaporation, 24 hours, 100°C (212°F)	wt%	0.44
ASTM D4693	Low-temperature torque at -40°C (-40°F)	Nm	.024
Load Carrying Capacity, Wear Protection, Speed			
ASTM D2266	Four-ball wear, 40kg, 1200rpm	mm	0.64
ASTM D2596	Four-ball EP, weld load, minimum Dn, bearing ID (mm)x(rpm), estimated	N	3,700 350,000

*DIN: Deutsche Industrie Norm.

ASTM: American Society for Testing and Materials.

ISO: International Standardization Organization.

DESCRIPTION

Molykote® G-4700 Grease is an extreme pressure synthetic grease that combines the benefits of wide operating temperature range and broad compatibility with varied materials. It is thickened with a lithium complex and contains molybdenum sulfide as a solid lubricant. Molykote G-4700 Extreme Pressure Synthetic Grease can be used to lubricate rolling element and plain bearings, pivot pins, cams, guides, ways, drive screws, gears, splines and other machine elements.

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 WEB SITE 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 at or below 35°C (95°F) in the original unopened containers, these products have 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 Web site, 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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