



Specialty
Lubricants

**MOLYKOTE® Longterm 2 plus
High Performance Grease**

FEATURES

- High load-carrying capacity
- Suitable for long-term lubrication
- In mixed friction it provides wear protection due to solid lubricants and EP (extreme pressure) additives
- Good adhesion strength
- Good protection against corrosion

COMPOSITION

- Mineral oil
- Lithium soap
- Solid lubricants
- EP additive
- Corrosion inhibitor
- Adhesion improver

Lubricating grease for metal/metal combinations with slow to medium-fast movements especially with high loads

APPLICATIONS

- Used successfully for bearings, spline profiles and clutches in highly stressed motor vehicles, tractors, cranes, earth-moving machines, conveyor belts and forklift trucks.
- Also where there is a risk of fretting corrosion, groove formation (Brinell effect) or moisture.

TYPICAL PROPERTIES

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

Standard*	Test	Unit	Result
	Color		Black
	Consistency, density, viscosity		
DIN 51 818	NLGI consistency class		2
ISO 2137	Worked penetration	mm/10	265-295
ISO 2811	Density at 20°C	g/ml	0.9
DIN 51 562	Base oil viscosity at 40°C ¹	mm ² /s	265
	Temperature		
	Service temperature	°C	-25 to +110, short period +130
ISO 2176	Drop point	°C	>=175
ASTM-D-1478-80	Low temperature torque test at -20°C		
	Initial break-away torque	Nm	420x10 ^{as}
	Torque after 20 minutes running time	Nm	35x10 ^{as}
	Loading capacity, wear protection, service life		
	Four-ball tester		
DIN 51 350 T.4	Weld load	N	3800
DIN 51 350 T.5	Wear scar under 800N load	mm	1.0
	Almen-Wieland machine		
	OK load	N	20000
	Frictional force with OK load	N	3200
DIN 51 82102A	FAG roller element bearing tester FE 9, 4500/6000-110, F ₁	h	100
	Speed		
	DN value	mm/min	250000
	Resistance		
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.3
	Corrosion protection		
DIN 51 802	SKF-Emcor method		
	Degree of corrosion		0-1

TYPICAL PROPERTIES (continued)

Standard*	Test	Unit	Result
	Oil separation		
DIN 51 817	Standard test	%	1.7

1. Calculated viscosity value of base oil mixture.

* ASTM: American Society for Testing and Materials

ISO: International Standardisation Organisation

DIN: Deutsche Industrie Norm

HOW TO USE

How to apply

Clean points of contact. As is usual with lubricating greases, apply by means of a brush, spatula, or automatic lubrication device. Can be used in central lubrication systems.

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 SAFETY DATA SHEET IS AVAILABLE FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

USABLE LIFE AND STORAGE

When stored at or below 20°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 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 Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

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. 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. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.