

MOLYKOTE® LONGTERM 2 PLUS

HIGH PERFORMANCE GREASE

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

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

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

Specifications writers: These values are not intended for use in preparing specifications. Please contact Dow Corning GmbH, Wiesbaden, Germany before writing specifications on this product.

Standard*	Test	Units	Result
	Colour		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 ⁻³
	Torque after 20 minutes running time	Nm	35x10 ⁻³
	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 ₅₀	h	100
	Speed		
	DN value	mm/min	250000
	Resistance		
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.3

TYPICAL PROPERTIES (continued)

Standard*	Test	Units	Result
	Corrosion protection		
DIN 51 802	SKF-Emcors method Degree of corrosion		0-1
	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

A Product Safety Data Sheet should be obtained from your nearest Dow Corning sales office prior to use.

ATTENTION: Before handling, read product information, Product Safety Data Sheets and container labels for safe use, and any physical and/or health hazard information.

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.

Dow Corning will guarantee the usable life of this product until the date indicated on the packaging. This date is shown by the letters "EXP" (meaning Expiry) followed by 4 digits, which stand for the month (last day) and year. Example: "EXP 03/99" means use by 31 March 1999.

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

Dow Corning's Health, Environment and Regulatory Affairs (HERA) Department is available to support customers for their product safety needs. For further information, you can contact this group at:

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