

Molykote[®] Longterm 1 Plus **Extreme Pressure Bearing Grease**

FEATURES & BENEFITS

- 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

Molykote[®] Longterm 1 Plus Extreme Pressure Bearing Grease is used successfully:

- For journal bearings in sugar mills.

Note: Suitable for use where there is no possibility of food contact.

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		Black
Consistency, density, viscosity			
DIN 51 818	NLGI consistency class		1
ISO 2137	Worked penetration	mm/10	310–340
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 breakaway torque	Nm	478x10 ⁻³
	Torque after 20 minutes running time	Nm	41x10 ⁻³
Loading capacity, wear protection, service life			
Four-ball tester			
DIN 51 350 T.4	Weld load	N	2400
DIN 51 350 T.5	Wear scar under 800 N load	mm	0.98
	Almen-Wieland machine OK load	N	20000
	Frictional force with OK load	N	1700

*DIN: Deutsche Industrie Norm

ISO: International Standardization Organization

ASTM: American Society for Testing and Materials

¹Calculated viscosity value of base oil mixture.

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 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 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.

TYPICAL PROPERTIES (continued)

Test	Property	Unit	Result
DIN 51 82102A	FAG roller element bearing tester FE 9, 4500/6000-110, F50	hour	95
Speed			
	DN value	mm/min	250000
Resistance			
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.22
Corrosion protection			
DIN 51 802	SKF-Emcor method Degree of corrosion		0-0
Oil separation			
DIN 51 817	Standard test	%	6.33

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