

## Preliminary Product information

DOW CORNING

## Specialty Lubricants

# MOLYKOTE® Longterm 2 plus WE High Performance Grease

**Lubricating grease for metal/metal combinations with slow to medium fast speeds 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 in bearings for wind energy turbines i.e. pitch bearings or azimuth bearings
- 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 your local Dow Corning sales representative prior to writing specifications on this product.

Standard*	Test	Unit	Result
	Color		Black
	<b>Consistency, density, viscosity</b>		
DIN 51 818	NLGI consistency class		2
ISO 2137	Worked penetration	mm/10	265-300
ISO 2811	Density at 20°C	g/ml	0.95
DIN 51 562	Base oil viscosity at 40°C <sup>1</sup>	mm <sup>2</sup> /s	275
	<b>Temperature</b>		
	Service temperature	°C	-25 to +110, short period +130
ISO 2176	Drop point	°C	>175 °C
ASTMD-1478-80	Low temperature torque test at -20°C		
	Initial breakaway torque	Nm	380x10 <sup>33</sup>
	Torque after 20 minutes running time	Nm	65x10 <sup>33</sup>
	<b>Loading capacity, wear protection, service life</b>		
	Four ball tester		
DIN 51 350 T.4	Weld load	N	4000
DIN 51 350 T.5	Wear scar under 800N load	mm	1.08
	Almen-Wieland machine		
	OK load	N	20000
	Frictional force with OK load	N	1940
DIN 51 82102A	FAG roller element bearing tester FE 9,h		100
	1500/6000-140, F <sub>1</sub> <sup>‡</sup> }		
	<b>Speed</b>		
	DN value	mm/min	250000
	<b>Resistance</b>		
DIN 51 808	Oxidation resistance, pressure drop 100h, bar		0.4
	<b>Corrosion protection</b>		
DIN 51 802	SKF-Emcor method Degree of corrosion		0-0
	<b>Oil separation</b>		
DIN 51 817	Standard test	%	2.5

\* FTMS : Federal Test Method Standard.

ASTM: American Society for Testing and Materials.

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.

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INDUCEMENTS TO INFRINGE  
ANY PATENT.**