

# Specialty Lubricants

## MOLYKOTE® Longterm 2/78G High Performance Grease

### FEATURES

- High load-bearing capacity
- Suitable for long-term lubrication, since little tendency to oxidize
- Resistance to galling
- Good protection against corrosion
- Contains no lead or nickel

### COMPOSITION

- Mineral oil
- Lithium/zinc soap thickener
- Solid lubricants
- Oxidation inhibitor
- Corrosion inhibitor

**High performance grease for metal/metal combinations with slow to moderately rapid movements and moderate to high stresses**

### APPLICATIONS

- Suitable for friction contacts with high stresses and low to moderate speeds, which are subject to friction corrosion, groove formation (Brinell effect) and moisture.
- Used successfully for car track-rod linkages, axle rod linkages and cup joints.

### 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
	<b>Consistency, density, viscosity</b>		
ISO 2137	Unworked penetration	mm/10	265-295
ISO 2811	Density at 20°C (68°F)	g/ml	0.92
DIN 51 562	Base oil viscosity at 40°C (104°F)	mm <sup>2</sup> /s	112
	<b>Temperature</b>		
	Service temperature	°C	-35 to +130
		°F	-31 to +266
ISO 2176	Drop point	°C	>180
		°F	>356
ASTM D147880	Low temperature torque test at -20°C (-4°F)		
	Initial break-away torque	Nm	183x10 <sup>-3</sup>
	Torque after 20 minutes running time	Nm	50x10 <sup>-3</sup>
ASTM D147880	Low temperature torque test at -30°C (-22°F)		
	Initial break-away torque	Nm	664
	Torque after 20 minutes running time	Nm	89
	<b>Loading capacity, wear protection, service life</b>		
	Four-ball tester		
DIN 51 350 T.4	Welding force	N	3200
DIN 51 350 T.5	Wear scar under 600N load	mm	0.9
	Almen-Wieland machine		
	OK load	N	11000
	Frictional force with OK load	N	3500
	<b>Resistance</b>		
DIN 51 807 T.1	Water resistance, static evaluation step		1-90
	<b>Corrosion protection</b>		
DIN 51 802	SKF-Emcor method		
	Degree of corrosion		0-1

## TYPICAL PROPERTIES (continued)

Standard*	Test	Unit	Result
<b>Oil separation</b>			
DIN 51 817	Standard test	%	1.9

\* ASTM: American Society for Testing and Materials.

ISO: International Standardisation Organisation.

DIN: Deutsche Industrie Norm.

## HOW TO USE

### How to apply

Clean the contact areas. As is usual with lubricating greases, apply by means of a brush, spatula, grease-gun 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 material safety data sheet is available on the Dow Corning website at [www.dowcorning.com](http://www.dowcorning.com). You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

## USABLE LIFE AND STORAGE

When stored at or below 20°C (68°F) 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 Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [www.dowcorning.com](http://www.dowcorning.com) or consult your local Dow Corning representative.

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