

# Specialty Lubricants

## MOLYKOTE® 165 LT Gearwheel grease

**Gearwheel grease for the lubrication of highly stressed open gears and reducing gears made of metal, with a peripheral speed of up to 2.5 m/s**

### FEATURES

- Extremely high load-carrying capacity
- Wear protection and reduction of existing pitting in gear teeth flanks during operation, due to the solid lubricants incorporated in the grease. Extremely adhesive due to build-in adhesion improver
- Good protection against corrosion (corrosion index 0 when tested using the SKF-Emcor method)
- Contains no lead or nickel

### COMPOSITION

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

### APPLICATIONS

- Open gears that are subjected to high stresses and bad weather effects.
- Successfully used in crushing plants and in transmission gears and threaded spindles of heavy, crank-driven presses.

### 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	240-270
ISO 2811	Density at 20°C (68°F)	g/ml	0.96
DIN 51 562	Base oil viscosity at 40°C (104°F) <sup>1</sup>	mm <sup>2</sup> /s	320
	<b>Temperature</b>		
	Service temperature range	°C	-25 to +120
		°F	-13 to +248
ISO 2176	Drop point	°C	175
		°F	347
ASTMD147880	Low temperature torque test at -20°C (-4°F)		
	Break-away torque	Nm	880x10 <sup>-3</sup>
	Torque after 20 minutes running time	Nm	115x10 <sup>-3</sup>
DIN 51 805	Kesternich method - flow pressure at -20°C (-4°F)	mbar	1350
	<b>Loading capacity, protection against wear, service life</b>		
	Four-ball tester		
DIN 51 350 T.4	Weld load	N	4400
DIN 51 350 T.5	Wear scar under 800N load	mm	1.2
	Almen-Wieland machine		
	OK load	N	20000
	Frictional force with OK load	N	2900
	<b>Corrosion protection</b>		
DIN 51 802	SKF-Emcor method		
	Degree of corrosion		0
	<b>Resistance</b>		
DIN 51 807 T.1	Water resistance, static evaluation step		2-90
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C (210°F)	bar	0.2

## TYPICAL PROPERTIES (continued)

Standard*	Test	Unit	Result
<b>Oil separation</b>			
DIN 51 817	Standard test	%	1.2

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

Carefully clean the metal surfaces and apply using a spatula or brush.

## 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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