

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-bearing capacity (4-ball test welding force 5200N)
- ◆ 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

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		
ISO 2137	Unworked penetration	mm/10	240-270
ISO 2811	Density at 20°C	g/ml	0.96
DIN 51 562	Base oil viscosity at 40°C ¹	mm ² /s	320
	Temperature		
	Service temperature range	°C	-25 to +120
ISO 2176	Drop point	°C	175
ASTMD147880	Low temperature torque test at -20°C		
	Break-away torque	Nm	880x10 ⁻³
	Torque after 20 minutes running time	Nm	115x10 ⁻³
DIN 51 805	Kesternich method - flow pressure at -20°C	mbar	1350
	Loading capacity, protection against wear, service life		
	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
	Corrosion protection		
DIN 51 802	SKF-Emcor method		
	Degree of corrosion		0
	Resistance		
DIN 51 807 T.1	Water resistance, static evaluation step		2-90
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.2

TYPICAL PROPERTIES (continued)

Standard*	Test	Units	Result
	Oil separation		
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

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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