

MOLYKOTE® 165 LT Gearwheel Grease

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 built-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.

How to use

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

Handling precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

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.

Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE® sales representative prior to writing specifications on this product.

Standard ⁽¹⁾	Test	Unit	Result
	Color		Black
Consistency, density, viscosity			
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) ⁽²⁾	mm ² /s	320
Temperature			
	Service temperature range	°C °F	-25 to +120 -13 to +248
ISO 2176	Drop point	°C °F	175 347
ASTM D147880	Low-temperature torque test at -20°C (-4°F)		
	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 (-4°F)	mbar	1,350
Loading capacity, protection against wear, service life			
	Four-ball tester		
DIN 51 350 T.4	Weld load	N	4,400
DIN 51 350 T.5	Wear scar under 800 N load	mm	1.2
	Almen-Wieland machine		
	OK load	N	20,000
	Frictional force with OK load	N	2,900

⁽¹⁾ISO: International Standardization Organization. DIN: Deutsche Industrie Norm. ASTM: American Society for Testing and Materials.

⁽²⁾Calculated viscosity value of base oil mixture.

Continued on next page.

Typical properties (continued)

Standard ⁽¹⁾	Test	Unit	Result
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 100 h, 99°C (210°F)	bar	0.2
Oil separation			
DIN 51 817	Standard test	%	1.2

⁽¹⁾ISO: International Standardization Organization. DIN: Deutsche Industrie Norm. ASTM: American Society for Testing and Materials.

Packaging

This product is available in different standard container sizes. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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