

MOLYKOTE® LONGTERM 00 FLUID GREASE

Fluid grease for the lubrication of highly stressed transmissions with metal gears

FEATURES

- ◆ Extremely high load-bearing capacity
- ◆ Resistant to galling through mixed friction. Wear protection due to solid lubricants and extreme pressure (EP) additives
- ◆ Extremely adhesive due to incorporated adhesion improver
- ◆ Good protection against corrosion
- ◆ Contains no lead or nickel

COMPOSITION

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

APPLICATIONS

- ◆ Closed gears that are subjected to high stresses, frictional corrosion and moisture.
- ◆ Used successfully for highly stressed gears that are subjected to high stresses, frictional corrosion and moisture.

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		
DIN 51 818	Consistency class, NLGI ¹		00
ISO 2137	Worked penetration	mm/10	400-430
ISO 2811	Density at 20°C	g/ml	0.93
DIN 51 562	Base oil viscosity at 40°C ²	mm ² /s	300
	Temperature		
	Service temperature	°C	-40 to +110
ISO 2176	Drop point	°C	190
ASTM-D147880	Low temperature torque test at -30°C		
	Initial break-away torque	Nm	1120x10 ⁻³
	Torque after 20 minutes running time	Nm	220x10 ⁻³
DIN 51 805	Kesternich method - flow pressure at -40°C	mbar	340
	Loading capacity, protection against wear, service life		
	Four-ball tester		
DIN 51 350 T.4	Weld load	N	3400
DIN 51 350 T.5	Wear scar under 800N load	mm	0.9
	Almen-Wieland machine		
	OK load	N	12000
	Resistance		
DIN 51 807 T.1	Water resistance, static evaluation step		1-90
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.3
	Corrosion protection		
DIN 51 802	SKF-Empcor method		
	Degree of corrosion, sea water		1

1. National Lubricating Grease Institute.

2. Calculated viscosity of base oil mixture.

* ASTM: American Society for Testing and Materials
ISO: International Standardisation Organisation

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:

Dow Corning Europe
HERA Department
Rue Général de Gaulle, 62
B-1310 La Hulpe
Belgium
TEL:
Int +32 (0)2 655 2523
Int +32 (0)2 655 2304
FAX:
Int +32 (0)2 655 2013

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**UNITED KINGDOM, NORDIC COUNTRIES,
BENELUX, SOUTH AFRICA, EIRE & MIDDLE EAST**

Dow Corning
UNITED KINGDOM
Tel: INT + 44 (0)1 676 52 80 00
Fax: INT + 44 (0)1 676 52 80 01

POLAND

Dow Corning Polska Sp. zo.o.
Tel: INT + 48 (0)22 645 14 45
Fax: INT + 48 (0)22 645 14 40

**AUSTRIA, GERMANY, SWITZERLAND &
EASTERN EUROPE**

Dow Corning GmbH
GERMANY
Tel: INT + 49 (0)611 - 23 71
Fax: INT + 49 (0)611 - 237 610

SPAIN & PORTUGAL

Dow Corning Ibérica S.A.
SPAIN
Tel: INT + 34 (0)93 - 405 12 15
Fax: INT + 34 (0)93 - 405 38 94

**ITALY & EASTERN MEDITERRANEAN
COUNTRIES**

Dow Corning S.p.A.
ITALY
Tel: INT + 39 039 - 60 711
Fax: INT + 39 039 - 68 99 660

FRANCE & NORTH AFRICA

Dow Corning France S.A.
FRANCE
Tel: INT + 33 (0)4 72 84 13 60
Fax: INT + 33 (0)4 72 84 13 79

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