

MOLYKOTE® YM 103

HIGH PERFORMANCE GREASE

High performance grease for metal/metal, metal/plastic and plastic/plastic combinations, involving slow to fast movements and medium to heavy loads

FEATURES

- ◆ Contains no lead or nickel
- ◆ Suitable for long-term lubrication by virtue of low tendency towards oxidation
- ◆ High load carrying capacity
- ◆ Good water-washout resistance
- ◆ Low-starting torque
- ◆ Compatible with many plastics and elastomers

COMPOSITION

- ◆ Polyalphaolefine
- ◆ Lithium soap
- ◆ Solid lubricants

APPLICATIONS

- ◆ Suitable for frictional contacts involving medium to heavy loads and low to high speeds, particularly those which have to remain fully serviceable at low temperatures.
- ◆ Used successfully on the adjusting gear of rear-view mirrors in cars; in car steering systems and video-recorders.

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		Yellowish
	Consistency, density, viscosity		
DIN 51 818	NLGI consistency class		1-2
ISO 2137	Worked penetration	mm/10	285-315
ISO 2811	Density at 20°C	g/ml	0.9
DIN 51 562	Base oil viscosity at 40°C	mm ² /s	29
	Temperature		
	Service temperature	°C	-45 to +120, +150 for short periods
ISO 2176	Drop point	°C	206
ASTM-D147880	Low temperature torque test at -50°C		
	Initial break-away torque	Nm	136x10 ⁻³
	Torque after 20 minutes running time	Nm	65x10 ⁻³
	Load-carrying capacity, wear protection, service life		
	Four-ball tester (VKA)		
DIN 51 350 pt.4	Weld load	N	4800
DIN 51 350 pt.5	Wear scar under 400N load	mm	0.6
	Resistance		
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.06
	Oil separation		
DIN 51 817	Standard test	%	3.2

* ASTM: American Society for Testing and Materials
ISO: International Standardisation Organisation
DIN: Deutsche Industrie Norm

HOW TO USE

How to apply

Clean points of contact. Apply in same way as lubricating greases, using brush, spatula, grease-gun or automatic lubricating device. Suitable for delivery by central lubricating system. In the event of long breaks in service e.g. overnight, the pressure in the delivery equipment should be relieved. Not to be mixed with other grease.

Because of variation in quality of plastics and elastomers, compatibility tests should be carried out for swelling and shrinkage, stress-crack formation, and changes in strength and hardness.

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 36 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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