

# **MOLYKOTE® YM 103**

## **High Performance Grease**

### **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

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

### **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**

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.

<b>Standard*</b>	<b>Test</b>	<b>Unit</b>	<b>Result</b>
	Color		Yellowish
	<b>Consistency, density, viscosity</b>		
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 <sup>2</sup> /s	29
	<b>Temperature</b>		
	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 <sup>a3</sup>
	Torque after 20 minutes running time	Nm	65x10 <sup>a3</sup>
	<b>Load-carrying capacity, wear protection, service life</b>		
	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
	<b>Resistance</b>		
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.06
	<b>Oil separation</b>		
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

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 SAFETY DATA SHEET IS AVAILABLE FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

## 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.

## 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 Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

## WARRANTY INFORMATION - PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. Dow Corning specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.