

Specialty Lubricants

MOLYKOTE® YM-103 Grease

Lubricating grease developed for plastic components

FEATURES

- Compatible with most plastics
- Good load carrying capability and wear resistance
- Long service life
- Low seepage, so it can be used in places wherein cleanliness is required

COMPOSITION

- Poly- α -olefin
- Lithium soap
- Special solid lubricants

APPLICATIONS

- Automobiles, electrical appliances, precision equipment, and office equipment.
- Can be used with plastic-on-plastic, metal-on-metal, or plastic-on-metal friction parts.

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.

Standard*	Parameter	Unit	Value
	Appearance		Yellow
	Base oil viscosity at 40°C	mm ² /s	29
JIS K 2220	Penetration (worked 60 times)	mm/10	300
	NLGI class		1 to 2
	Service temperature range	°C	-45 to 150
	Density	g/cm ³	0.90
JIS K 2220	Drop point	°C	195
JIS K 2220	Bleed (100°C 24 hours)	%	3.0
JIS K 2220	Evaporation (99°C 22 hours)	%	0.2
JIS K 2220	Oxidation resistance (99°C 100 hours)	MPa	0.02
JIS K 2220	Copper corrosion (100°C 24 hours)		1a
ASTM D 2596	Four ball weld load (1500rpm/1minute)	N	5220
ASTM D 2266	Four ball wear scar (1200rpm, 392N, 1 hour)	mm	0.40
JIS K 2220	Low temperature torque test (-40°C)		
	Starting torque	Ncm	9.3
	Running torque	Ncm	4.9

*JIS: Japanese Industrial Standard.

ASTM: American Society for Testing and Materials.

HOW TO USE

Clean points of application. As is usual with lubricating greases, apply or fill by means of a brush, spatula, or automatic lubrication device.

HANDLING PRECAUTIONS

This product may irritate the skin or eyes. Wear safety equipment as necessary when handling this product. In the event of contact with skin or eyes, immediately rinse thoroughly with water and seek medical care if necessary. Wash hands thoroughly after handling. At high temperatures in excess of 200°C, the breakdown of fluorinated polymer can cause the release of a small amount of toxic gas. Ensure adequate ventilation.

USABLE LIFE AND STORAGE

When stored, unopened in a cool, dark place this product, has a usable life of 36 months from the date of production.

PACKAGING

This product is available in 1kg cans (10 cans/case) and 16kg pails.

CAUTION

1. Data included in this document are average values, not specification values. Any applications for this product given in this document are merely examples. Perform thorough evaluations to confirm functionality, effectiveness, and safety before use.
2. No guarantees are made that the applications described in this document are free from infringements of any patent.
3. This product was developed for industrial use, and is not intended for use in medical equipment, pharmaceutical products, etc.
4. Be sure to read the material safety data sheet (MSDS) and container label for this product before use.
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