

## MOLYKOTE® U-N LUBRICANT PASTE

### Solid lubricant paste with synthetic carrier oil

#### FEATURES

- ◆ Dry lubrication up to 450°C
- ◆ Reduced friction and wear
- ◆ Low coefficient of friction
- ◆ High load-carrying capacity
- ◆ Compatible with some types of natural rubber and plastics (test for compatibility required before use)

#### COMPOSITION

- ◆ Polyalkylene glycol oil
- ◆ Lithium soap
- ◆ Solid lubricants

#### APPLICATIONS

- ◆ For assembling, running-in and permanent lubrication of components that are subjected to high temperatures.
- ◆ Suitable for the dry lubrication of bearings (low rotary speeds), slideways and joints that are subjected to temperatures exceeding 200°C. At higher temperatures the carrier volatilizes leaving virtually no residue, and the remaining dry, anti-friction film alone takes over the only lubrication up to +450°C - even beyond this in a protective gas atmosphere.
- ◆ As the paste has a synthetic oil base, it is also suitable for lubricating construction elements that consist of materials that are not resistant to mineral oils.
- ◆ Used successfully for roller and sliding bearings of foundry ladles and converter bearings in steel works, conveyor and driving rollers of belt conveyors, in the bearings of furnace and shuttle kilns, chains and chain conveyor rollers, for joints of ironing presses, for O-rings that are not resistant to mineral oils, lip seals, rubber and cup leathers.

#### 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
	<b>Penetration, density</b>		
ISO 2137	Unworked penetration	mm/10	250-280
ISO 2811	Density at 20°C	g/ml	1.7
	<b>Temperature</b>		
	Service temperature <sup>1</sup>	°C	-40 to 450 up to 630 with restricted air access
	<b>Load-carrying capacity, wear protection, service life</b>		
	Four-ball tester		
DIN 51 350 pt.4	Weld load	N	3800
DIN 51 350 pt.5	Wear scar under 800N load	mm	0.8
	Almen-Wieland machine		
	OK load	N	18000
	Frictional force	N	3160
	<b>Coefficient of friction</b>		
	Press-Fit test, $\mu$		0.09, no chatter

## TYPICAL PROPERTIES (continued)

Standard*	Test	Units	Result
	<b>Oil separation - evaporation</b>		
DIN 51 817	Oil separation, 7 days, 40°C	%	0.7

1. Temperature limit of solid lubricants  
\* ISO: International Standardisation Organisation  
DIN: Deutsche Industrie Norm

### HOW TO USE

#### How to apply

Clean the contact areas. Uniformly rub the paste in, using a hard brush, cloth, plastic sponge or window leather. Remove excess paste.

Clean the roller bearing with petroleum spirit. Before assembling, lightly apply this product without using excess, between the roller elements on the bearing races, then move the bearing slightly so that a thin sliding film is produced.

If required, roller bearings that have already been treated with this product by the manufacturer can be supplied.

### 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 digit) 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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