

**Specialty  
Lubricants**

**MOLYKOTE® U-n  
Lubricant paste**

**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

**Solid lubricant paste with synthetic carrier oil**

**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**

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*	Test	Unit	Result
	Color		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	Unit	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

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 60 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.

as inducements to infringe any patent.

## 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