

Product Information Specialty Lubricants



DOW CORNING

Molykote[®] U-N Lubricant Paste

FEATURES & BENEFITS

- 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
- Molykote[®] U-N Lubricant Paste is 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 office or your Global Dow Corning Connection before writing specifications on this product.

Test ¹	Property	Unit	Result
	Color		Black
Penetration, Density			
ISO 2137	Unworked penetration	mm/10	250–280
ISO 2811	Density at 20°C (68°F)	g/ml	1.7
Temperature			
	Service temperature ²	°C	-40 to +450 up to 630 with restricted air
Load-carrying Capacity, Wear Protection, Service Life			
	Four-ball tester		
DIN 51 350 pt.4	Weld load	N	3800
DIN 51 350 pt.5	Wear scar under 800 N load	mm	0.8
	Almen-Wieland machine		
	OK load	N	18000
	Frictional force	N	3160

¹ISO: International Standardisation Organisation
DIN: Deutsche Industrie Norm

²Temperature limit of solid lubricants

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 IN THIS DOCUMENT. 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 ON THE DOW CORNING WEBSITE AT DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored between 0°C and 40°C in the original unopened containers, this product has a usable life of 60 months from the date of production.

PACKAGING INFORMATION

Molykote U-N Lubricant Paste 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.

TYPICAL PROPERTIES (continued)

Test	Property	Unit	Result
Coefficient of Friction			
	Press-Fit test	μ	0.09, no chatter
Oil Separation - Evaporation			
DIN 51 817	Oil separation	%	0.7

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 Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, dowcorning.com or consult your local Dow Corning representative.

LIMITED 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 our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that our products will meet the 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.

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