**Product Information**  
Specialty  
Lubricants

## 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.

<table>
<thead>
<tr>
<th>Test</th>
<th>Property</th>
<th>Unit</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td></td>
<td></td>
<td>Black</td>
</tr>
<tr>
<td>Penetration, Density</td>
<td>Unworked penetration</td>
<td>mm/10</td>
<td>250–280</td>
</tr>
<tr>
<td>ISO 2137</td>
<td>Density at 20°C (68°F)</td>
<td>g/ml</td>
<td>1.7</td>
</tr>
<tr>
<td>Temperature</td>
<td>Service temperature</td>
<td>°C</td>
<td>-40 to +450 up to 630 with restricted air</td>
</tr>
</tbody>
</table>

**Load-carrying Capacity, Wear Protection, Service Life**

<table>
<thead>
<tr>
<th>Test</th>
<th>Property</th>
<th>Unit</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN 51 350 pt.4</td>
<td>Weld load</td>
<td>N</td>
<td>3800</td>
</tr>
<tr>
<td>DIN 51 350 pt.5</td>
<td>Wear scar under 800 N load</td>
<td>mm</td>
<td>0.8</td>
</tr>
<tr>
<td>Almen-Wieland machine</td>
<td>OK load</td>
<td>N</td>
<td>18000</td>
</tr>
<tr>
<td>Frictional force</td>
<td>N</td>
<td>3160</td>
<td></td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Test</th>
<th>Property</th>
<th>Unit</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coefficient of Friction</td>
<td></td>
<td>µ</td>
<td>0.09, no chatter</td>
</tr>
<tr>
<td>Oil Separation - Evaporation</td>
<td></td>
<td>%</td>
<td>0.7</td>
</tr>
</tbody>
</table>

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.

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