# MOLYKOTE® DX (S) Paste

## Preliminary data

Light-colored grease-paste with solid lubricants for assembly and long-term lubrication of metallic components

### Features & benefits

- Particularly high load-carrying capacity
- Good water resistance and water washout resistance
- Prevents stick-slip and seizure
- Good corrosion protection
- Excellent protection against galling
- Cleanness
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

### Composition

- Mineral oil
- Lithium soap
- Solid lubricants
- Corrosion inhibitor

### Applications

Sliding surfaces and friction contacts exposed to heavy loads, requiring “clean” lubrication, especially at low to medium speeds. Could be used on many friction contacts of electrical and domestic appliances, packaging and office machinery, and precision instruments, as well as in textile and plastics processing machinery.

### Description

MOLYKOTE® DX (S) Paste is a grease-paste that reduces friction in low-speed, high-load applications by delivering a combination of white solid lubricants with a mineral oil carrier fluid to the required point of lubrication.

### How to use

Clean points of contact. Apply in same way as lubricating greases, using brush, spatula, grease-gun or automatic lubricating device. Suitable for delivery by central lubricating system. Excess lubrication does not harm.

### Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE® sales representative prior to writing specifications on this product.

| Standard[1] | Test | Unit | Result |
|---|---|---|---|
| | Color | | White to off-white |
| **Consistency, density, viscosity** | | | |
| ISO 2137 | Unworked penetration | mm/10 | 285-315 |
| ISO 2811 | Density at 20°C (68°F) | g/ml | 1.1 |
| DIN 51 562 | Base oil viscosity at 40°C (104°F) | mm²/s | 110 |
| **Temperature** | | | |
| | Service temperature range | °C | -25 to +125 |
| | | °F | -31 to +257 |
| ASTM D1478-80 | Low temperature torque test at -20°C (-4°F)[2] | | |
| | Initial break-away torque | Nm | < 300 x $10^{-3}$ |
| | Torque after 20 minutes running time | Nm | < 100 x $10^{-3}$ |
| DIN 51 805 | Kestemich method - flow pressure at -20°C (-4°F) | mbar | < 500 |
| **Load-carrying capacity, wear protection** | | | |
| | Four-ball tester (VKA) | | |
| DIN 51 350 pt.4 | Weld Load | N | 4,800 |
| DIN 51 350 pt.5 | Wear scar (800 N/1 h) | mm | 0.77 |
| | Almen-Wieland machine OK load | N | 20,000 |
| | Frictional force | N | 1,560 |
| **Coefficient of friction** | | | |
| | Press-fit test | μ | 0.10, no chatter |
| ASTM D-7594-10 | SRV, Fretting (100 N, 0.3 mm stroke), 8 h | μ | 0.12 |

[1]ISO: International Standardization Organization. DIN: Deutsche Industrie Norm. ASTM: American Society for Testing and Materials.
[2]Calculated viscosity value of base oil mixture.

*Continued on next page*

## Typical properties (continued)

| Standard[1] | Test | Unit | Result |
|---|---|---|---|
| **Water resistance and corrosion protection** | | | |
| DIN 51 807 pt.1 | Water resistance, static evaluation step | | 0-90 |
| DIN 51 802 | SKF-Emcor method | | |
| | Degree of corrosion | | Max. 2 |
| **Oil separation** | | | |
| DIN 51 817 | Oil separation, standard test | % | ≤3.0 |

[1]ISO: International Standardization Organization. DIN: Deutsche Industrie Norm. ASTM: American Society for Testing and Materials.
[2]Calculated viscosity value of base oil mixture.

## Handling precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

## Usable life and storage

When stored between 0 and 40°C (32 to104°F) in the original, unopened containers, MOLYKOTE® DX (S) Paste has a usable life of 60 months from the date of production.

## Packaging

This product is available in different standard container sizes as shown on **molykote.com**. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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