

Molykote[®] P-40 Metal-Free Adhesive Lubricating Paste

FEATURES & BENEFITS

- Excellent adhesion
- Good corrosion protection
- Good water resistance
- Good antifretting
- Assembly and continuous lubrication
- Metal-free
- Low water pollution class

Metal-free adhesive lubrication paste

APPLICATIONS

- Assembly and threaded connections, spline shafts, mounting of bearings.
- Continuous lubrication for:
 - Various parts in brake systems, in brake rods, guide bolts
 - Axles of commercial vehicles, cams and plain bearings
 - Open Gears
 - Marine applications

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* | Property | Unit | Result |
|-----------------|--|--------------------|----------------------|
| | Color | | Yellowish Brown |
| | Consistency, viscosity | | |
| ISO 2137 | Unworked penetration | mm/10 | 310 - 350 |
| DIN 51 562 | Base oil viscosity at 40°C (104°F) | mm ² /s | 400 |
| | Temperature | | |
| | Service temperature range | | |
| | - as paste | °C | -40 to +121 |
| | | °F | -40 to +250 |
| | - solid lubricants | °C | -40 to +1093 |
| | | °F | -40 to +2000 |
| | Deutsche Bahn AG test | | |
| | - stirrability at -35°C (-31°F) | | 4 |
| DIN 51 805 | Kestemich method - flow pressure at -30°C (-22°F) | mbar | 360 |
| DIN 2176 | Dropping point | °C | None |
| | | °F | None |
| | Load-carrying capacity, wear protection, service life | | |
| | Four-ball tester (VKA) | | |
| DIN 51 350 pt.4 | Weld load | N | 3000 |
| DIN 51 350 pt.5 | Wear scar under 800N load | mm | 0.94 |
| | Fretting corrosion – Deyber tester | | 25 x 10 ⁶ |
| | Coefficient of friction | | |
| | Press-Fit test, $\mu =$ | | 0.09 |
| | Screw test - μ thread ¹ | | 0.16 |
| | Screw test - μ head ¹ | | 0.08 |
| SRV Optimal | Oscillating endurance test, $\mu =^2$ | | 0.13 |

TYPICAL PROPERTIES (continued)

| Test | Property | Unit | Result |
|------------|--------------------------------------|------|--------|
| | Corrosion protection | | |
| DIN 51 802 | SKF-Emcor method-degree of corrosion | | 0 |
| | Salt spray test | h | 500 |

*ISO: International Standardization Organization.

DIN: Deutsche Industrie Norm.

¹Coefficient of friction in bolted connection, M12 x 1.75, material 8.8, blackened.

²Load: 300N, frequency: 50Hz, amplitude: 0.5mm, 2h.

DESCRIPTION

Molykote[®] P-40 is a metal-free adhesive lubrication paste which can be used for all assembly and continuous lubricating jobs, particularly those exposed to corrosive environments such as splash water or humidity.

HOW TO USE

How to apply

The sliding surfaces should be cleaned. The paste should then be applied with a suitable brush, rag or grease gun. It should not be mixed with greases or oils.

HANDLING

PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOW CORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored at or below 20°C (68°F) in the original unopened containers, this product has a usable life of 60 months from the date of production.

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

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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