

Product Information

High Performance Lubricants

DOW CORNING

Molykote[®] HP-300 Grease

FEATURES

- Compatible with most plastics
- Excellent stability at high temperatures
- Superior resistance to chemicals and solvents
- Minimal deterioration due to oxidation, appropriate for long-term lubrication
- Low vapor pressure (base oil)

COMPOSITION

- Perfluoro polyether
- Fluorinated polymer

Fully fluorinated grease provides extraordinary performance under extreme conditions

APPLICATIONS

- *Molykote*[®] HP-300 Grease can be used broadly under harsh conditions such as low or high temperatures, corrosive, solvent, liquefied natural gasses, high vacuum, etc.
- Clean room equipment and semiconductor manufacturing equipment where the volatilization of the lubricating material is undesirable.

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 |
|------------|---|-------------------|---------------------|
| | Appearance | | White |
| JIS K 2220 | Penetration (worked 60 times) | mm/10 | 280 |
| | NLGI class | | 2 |
| | Service temperature range | °C | -65 to 250 |
| | Density | g/cm ³ | 2.0 |
| MIL-S-8660 | Bleed (200°C, 24 hours) | % | 8.0 |
| MIL-S-8660 | Evaporation (200°C, 24 hours) | % | 0.2 |
| MIL-S-8660 | Evaporation (200°C, 1000 hours) | % | 1.0 |
| ASTM D2596 | Four ball weld load (1500rpm/1 minute) | N | 3330 |
| ASTM D2266 | Four ball wear scar (1200rpm, 392N, 1 hour) | mm | 1.1 |
| JIS K 2220 | Low temperature torque test (-20°C) | | |
| | Starting torque | Ncm | 4.1 |
| | Running torque | Ncm | 1.8 |
| JIS K 2220 | Low temperature torque test (-40°C) | | |
| | Starting torque | Ncm | 11 |
| | Running torque | Ncm | 3.6 |
| | Base oil vapor pressure 20°C | Pa | 4x10 ⁻¹⁰ |

*JIS: Japanese Industrial Standard.

MIL: Military Specification and Standards.

ASTM: American Society for Testing and Materials.

HOW TO USE

Clean point of application. As is usual with lubricating greases, apply or fill by means of a brush, spatula, or automatic lubrication device.

HANDLING PRECAUTIONS

Although *Molykote* HP-300 Grease is highly chemically stable, at temperature in excess of 250°C the material will gradually decompose and release toxic gasses; be sure to have adequate ventilation if you expect the material to decompose. Do not smoke cigarettes that are contaminated with this product.

Be sure to wash hands thoroughly after use.

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 WEB SITE 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, unopened in a cool, dark place this product, has a usable life of 36 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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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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