

Product Information

High Performance Lubricants

DOW CORNING

Molykote® P-1500

Anti-Fretting Paste

FEATURES

- Wide service temperature range (-50° to +160°C)
- High load-carrying capacity
- Good water resistance and water washout resistance
- Excellent protection against galling and fretting corrosion
- Prevents stick-slip and seizure

COMPOSITION

- Semi-synthetic oil
- Lithium soap
- Solid lubricants
- Corrosion inhibitor

White grease-paste with solid lubricants

APPLICATIONS

- Assembly and long-term lubrication of metallic components.
- Sliding surfaces and friction contacts exposed to heavy loads, requiring “clean” lubrication, especially at low to medium speeds.
- Used on friction contacts of electrical and domestic appliances, packaging and office machinery, precision instruments, in textile and plastics processing machinery and for lubrication of components in the automotive industry.

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.

Standard	Property	Unit	Value
	Colour		White
	Consistency, density, viscosity		
ISO 2137	Unworked penetration	mm/10	290 – 320
ISO 2811	Density at 20°C	g/ml	1,05
DIN 51562	Base oil viscosity at 40°C	mm ² /s	90
	Temperature		
	Service temperature range	°C	-50 to +160
ISO 2176	Dropping point	°C	170
DIN 51805	Flow pressure at -20°C / -40°C	mbar	380 / 820
ASTM D-1478-80	Low temperature torque at -40°C	Nm	
	Initial break-away torque		224 x 10 ⁻³
	Torque after 20 min running time		41 x 10 ⁻³
	Load-carrying capacity, wear protection		
	Four-ball-tester		
DIN 51350 T4	Weld load	N	4000
DIN 51350 T5	Wear scar under 800N load	mm	0,82
	LFW-1 oscillating; no. of oscillations to $\mu=0,12$	cycles	500.000
	Load = 562N, v = 72 cm/s		
	Almen-Wieland machine		
	OK load	N	20.000
	Friction force	N	1650
	Coefficient of friction		
	Press-Fit test	μ	0,12
	Resistance		
DIN 51807	Water resistance, 3h, 90°C		0
	Corrosion protection		
DIN 51802	SKF Emcor, corrosion preventing properties		0-1
	Fretting corrosion (Deyber test)	cycles	> 36 x 10 ⁶
	Oil separation		
DIN 51817	Standard test 7 days, 40°C	%	4,0

* CTM: Corporate Test Method, copies of CTM's are available on request.
ASTM: American Society for Testing and Materials.

DESCRIPTION

Molykote[®] P-1500 is a white colored grease-paste that combines the benefits of wide operating temperature range with excellent anti-fretting properties. This paste can be used for assembly as well as for long-term lubrication of metallic components.

HOW TO USE

The contact points should be cleaned, wherever possible. Paste should be applied using a suitable brush. It can be delivered by a grease gun or central lubricating system. Excess lubrication does not harm.

HANDLING PRECAUTIONS

Product safety information required for safe use is not included. Before handling, read product and 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 www.dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

USABLE LIFE AND STORAGE

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

PACKAGING

This product is available in 1kg. can, 5kg pail and 25kg pail.

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, www.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 Dow Corning's 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.

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