

Product Information

Specialty Lubricants

DOW CORNING

MOLYKOTE® TP 42

Grease paste

FEATURES

- High load-carrying capacity
- Particularly adhesive
- Particularly resistant to wash-out by water and metal machining emulsions
- Prevents stick-slip
- Good corrosion protection
- Excellent protection against galling

COMPOSITION

- Mineral oil
- Synthetic oil
- Lithium soap
- Solid lubricants
- Adhesion improver

Light-colored adhesive grease-paste with solid lubricants for metallic friction combinations

APPLICATIONS

- Sliding surfaces exposed to high pressure loadings and subject to the influence of water or metal machining emulsions.
- Recommended and successfully used by leading clamping-element manufacturers, especially for chucks on metal processing machines.

TYPICAL PROPERTIES

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

Standard*	Test	Unit	Result
	Color		Light beige
	Penetration, density, viscosity		
ISO 2137	Unworked penetration	mm/10	265-300
ISO 2811	Density at 20°C	g/ml	1.19
	Temperature		
	Service temperature ¹	°C	-25 to +250
ISO 2176	Drop point	°C	125
ASTM-D-1478-80	Low temperature torque test at -20°C		
	Initial break-away torque	Nm	224x10 ⁻³
	Torque after 20 minutes running time	Nm	59x10 ⁻³
DIN 51 805	Kesternich method - flow pressure at -20°C	mbar	740
	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 under 800N load	mm	0.9
	Almen-Wieland machine		
	OK load	N	20000
	Friction force	N	1710
	Coefficient of friction		
	Press-Fit test $\mu =$		0.09
	Resistance		
DIN 51 807 pt.1	Water resistance, static		2-90
	Corrosion protection		
DIN 51 802	SKF-Emcor method		
	Degree of corrosion		0-1

TYPICAL PROPERTIES (continued)

Standard*	Test	Unit	Result
Oil separation - evaporation			
DIN 51 817	Oil separation, standard test	%	1.5

1. Thermal stability of solid lubricant.

* ASTM: American Society for Testing and Materials.

ISO: International Standardisation Organisation.

DIN: Deutsche Industrie Norm.

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. 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 FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

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 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 Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

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. Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment. 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. Dow Corning specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.