

## MOLYKOTE® TP 42

### GREASE PASTE

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

#### 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

#### APPLICATIONS

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

#### TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact Dow Corning GmbH, Wiesbaden, Germany before writing specifications on this product.

Standard*	Test	Units	Result
	Colour		Light beige
	<b>Penetration, density, viscosity</b>		
ISO 2137	Unworked penetration	mm/10	265-300
ISO 2811	Density at 20°C	g/ml	1.19
	<b>Temperature</b>		
	Service temperature <sup>1</sup>	°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 <sup>-3</sup>
	Torque after 20 minutes running time	Nm	59x10 <sup>-3</sup>
DIN 51 805	Kesternich method - flow pressure at -20°C	mbar	740
	<b>Load-carrying capacity, wear protection, service life</b>		
	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
	<b>Coefficient of friction</b>		
	Press-Fit test $\mu =$		0.09
	<b>Resistance</b>		
DIN 51 807 pt.1	Water resistance, static		2-90
	<b>Corrosion protection</b>		
DIN 51 802	SKF-Emcors method		
	Degree of corrosion		0-1

## TYPICAL PROPERTIES (continued)

Standard*	Test	Units	Result
	<b>Oil separation - evaporation</b>		
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

A Product Safety Data Sheet should be obtained from your nearest Dow Corning sales office prior to use.

ATTENTION: Before handling, read product information, Product Safety Data Sheets and container labels for safe use, and any physical and/or health hazard information.

### 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.

Dow Corning will guarantee the usable life of this product until the date indicated on the packaging. This date is shown by the letters "EXP" (meaning Expiry) followed by 4 digits, which stand for the month (last day) and year. Example: "EXP 03/99" means use by 31 March 1999.

### 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

Dow Corning's Health, Environment and Regulatory Affairs (HERA) Department is available to support

customers for their product safety needs. For further information, you can contact this group at:

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