

MOLYKOTE® Z AND MICROSIZE POWDERS

HIGHLY REFINED AND PURIFIED MOLYBDENUM
DISULPHIDE POWDERS

FEATURES

- ◆ Reduction of friction and wear
- ◆ Resistant to oxidation
- ◆ Excellent adhesion on metal surfaces
- ◆ Extreme pressure resistance
- ◆ Wide service temperature range

COMPOSITION

- ◆ Molybdenum disulphide

MOLYKOTE Z and Microsize Powders effectively lubricate metal surfaces of all kinds in many difficult and extreme environments e.g. metal/metal pairings at extreme loads and slow speeds or metal/plastic pairings at low loads and low to medium speeds

APPLICATIONS

- ◆ Coating of metallic friction contacts which cannot be sufficiently lubricated with oil or grease due to high loads, low speed or unfavourable environmental influences.
- ◆ For finely finished surfaces and highly alloyed steels with dense structure MOLYKOTE Microsize Powders is the preferred product. Incorporation as a friction reducing additive in plastic elastomers and sintered metals.

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.

Parameter	Units	Value	
		MOLYKOTE Microsize	MOLYKOTE Z
Colour		Black	Black
Density at 20°C		4.80	4.80
Temperature			
Service temperature range	°C	-185 to +450	-185 to +450
In hydrogen atmosphere	°C	to +700	to +700
In vacuum	°C	to +1100	to +1100
In inert gas (argon)	°C	to +1300	to +1300
Load-carrying capacity, wear protection, service life			
Almen Wieland machine OK load	N	>20000	>20000
Coefficient of friction			
Press-Fit test, μ		0.06	0.05, no chatter
Particle size (Fischer)	μm	0.65-0.75	3-4

HOW TO USE

How to apply

Rub the powder in thoroughly in different directions on degreased dry surfaces using a hard brush or window leather. Can be applied by rotary brush, felt or polishing disks. Small parts should preferably be tumble coated. Addition to plastic elastomers and sinter metals before forming.

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.

Int +32 (0)2 655 2523

Int +32 (0)2 655 2304

FAX:

Int +32 (0)2 655 2013

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:

Dow Corning Europe
HERA Department
Rue Général de Gaulle, 62
B-1310 La Hulpe
Belgium
TEL:

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UNITED KINGDOM, NORDIC COUNTRIES, BENELUX, SOUTH AFRICA, EIRE & MIDDLE EAST
Dow Corning
UNITED KINGDOM
Tel: INT + 44 (0)1 676 52 80 00
Fax: INT + 44 (0)1 676 52 80 01

AUSTRIA, GERMANY, SWITZERLAND & EASTERN EUROPE
Dow Corning GmbH
GERMANY
Tel: INT + 49 (0)611 - 23 71
Fax: INT + 49 (0)611 - 237 610

ITALY & EASTERN MEDITERRANEAN COUNTRIES
Dow Corning S.p.A.
ITALY
Tel: INT + 39 039 - 60 711
Fax: INT + 39 039 - 68 99 660

POLAND
Dow Corning Polska Sp. z o.o.
Tel: INT + 48 (0)22 645 14 45
Fax: INT + 48 (0)22 645 14 40

SPAIN & PORTUGAL
Dow Corning Ibérica S.A.
SPAIN
Tel: INT + 34 (0)93 - 405 12 15
Fax: INT + 34 (0)93 - 405 38 94

FRANCE & NORTH AFRICA
Dow Corning France S.A.
FRANCE
Tel: INT + 33 (0)4 72 84 13 60
Fax: INT + 33 (0)4 72 84 13 79

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