

Product Information

Specialty Lubricants

DOW CORNING

Molykote[®] Z Powder

FEATURES & BENEFITS

- Excellent lubricating properties
- Reduction of friction and wear
- Resistant to oxidation
- Extreme pressure resistance
- Wide service temperature range

COMPOSITION

- Molybdenum disulphide

Solid Lubricant

APPLICATIONS

Molykote[®] Z Powder can be used:

- as a dry burnished (rubbed-on) lubricating film for metallic contacts
- as a solid lubricant additive for self-lubricating plastics and sinter metal parts
- as a solid lubricant additive in metalworking compounds
- as a solid lubricant additive in brake lining application
- as run-in aid, in press-fittings, in Heavy Loads and Slow Speeds applications and also in extreme environments (for example in dusty atmospheres or extremes of temperatures)

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
CTM 1392	Color		Charcoal gray to black
	Consistency		Free flowing powder
	Purity (MoS ₂ content)	%	98
	Particle size distribution (Laser Method Malvern Mastersizer in 2-propanol)	µm	90% <78.38 50% <31.59 10% <9.44
CTM 0268A	Particle size (Fisher Method)	µm	3 - 4
	Service temperature range	°C	-185 to 400
	Service temperature range (in vacuum)	°C	Up to 1100
ISO 3923-2	Theoretical density (solid state)	g/cm ³	4.8
	Bulk density (powder state)	g/cm ³	1.3
CTM 0262 M	Water/moisture content	%	0.02
	Almen Wieland machine OK load	N	>20000
	Press-Fit test	µ	0.048

*CTM: Corporate Test Method, copies of CTMs are available on request.

ISO: International Organization for Standardization.

DESCRIPTION

Molykote[®] Z Powder is a solid lubricant that lubricates metal surfaces 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.

HOW TO USE

Rub the powder 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. Add to plastic elastomers and sinter metals before forming.

**HANDLING
PRECAUTIONS
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 WEBSITE 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 at or below 20°C (68°F) in the original unopened bags, this product has a usable life of 60 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.

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 our 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.

Dow Corning's sole warranty is that our products will meet the 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.

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