MOLYKOTE® Microsize Powder

Solid lubricant

Features

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

Composition

- Molybdenum disulfide (MoS_2)

Applications

MOLYKOTE® Microsize 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 run-in aid, in press-fittings, in heavy-load and slow-speed applications, and also in extreme environments (e.g., in dusty atmospheres or temperature extremes).

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 SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Usable life and storage

When stored at or below 20°C (68°F) 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 1 kg can and 25 kg pails.

Typical properties

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

Standard	Test	Unit	Result
	Color		Black
	Consistency		Free-flowing powder
	Purity (MoS_2 content)	%	98
	Particle size distribution (Laser Method Malvern Mastersizer in 2-propanol)	µm	90% <11.82 50% <5.22 10% <1.97
	Particle size (Fisher Method)	µm	0.65 to 0.80
	Service temperature range	°C	-185 to +450
	Service temperature range (in vacuum)	°C	Up to 1,100
	Theoretical density (solid state)	g/cm³	4.8
	Bulk density (powder state)	g/cm³	0.5
	Water/moisture content	%	0.05
	Almen Wieland machine OK load	N	> 20,000
	Press-fit test	µ	0.06

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