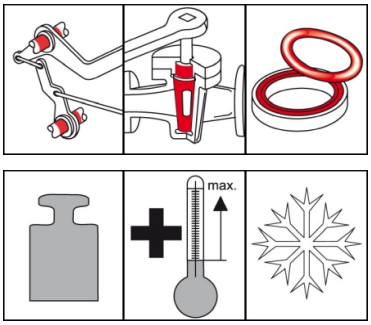
PRODUCT INFORMATION

OKS 100

MoS_2 Powder, high degree of purity



Description

OKS 100 is a MoS_2-powder to improve the sliding properties of machine elements.

Applications

- For sliding properties improvement of machine parts, apparates and precision machinery, e.g. under the influence of oxygen, in vacuum or radioactive radiation
- Dry lubrication for tools or workpieces in cold- and thermoforming
- For incorporation in plastics, sealings, packages, sintered metals and improvement of sliding properties
- For long-term or possibly lifetime-lubrication

Advantages and benefits

- Reduces friction and wear in a wide temperature range
- High effectiveness due to high affinity of MoS_2 to metals
- Low friction at highest load capacities
- Low consumption based on forming of extreme thin sliding films
- Not electrically conducting and not magnetic
- Chemically stable except against halogenated gases, concentrated sulfuric- and nitric acid

Branches

- Rail vehicle technology
- Municipal services
- Rubber and plastic processing
- Iron and steel industry
- Glass and foundry industry
- Chemical industry
- Logistics
- Shipbuilding and marine technology
- Plant and machine (tool) engineering
- Paper and packaging industry

Application tips

For best adhesion, clean sliding surfaces. Best way is to clean mechanically first and then with OKS 2610 or OKS 2611 universal cleaner. Apply on small parts in series production by tumbling, under addition of small amounts powder and tumbling parts, until a complete MoS_2 film is formed. Brush the powder onto bigger surfaces. Addition of approx. 2-3% for self-lubricating material before forming.

Packaging

- 250 g Can
- 1 kg Can
- 5 kg Hobbock
- 25 kg Hobbock

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Technical data

	Standard	Conditions	Unit	Value
Main components				
solid lubricants				MoS_2
share of solid lubricants	DIN 51 814		percent in weight	> 98.5
Application related technical data				
lower operating temperature			°C	-185
maximal operating temperature		in normal atmosphere	°C	450
maximal operating temperature		in vacuum	°C	1,100
maximal operating temperature		in inert gas	°C	1,300
colour				grey-black
density (at 20°C)			g/cm³	approx. 4.8
Product specific technical data				
particle size	ISO 13320-1	d 50	µm	16-30
particle size		max. d 99	µm	max. 190

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