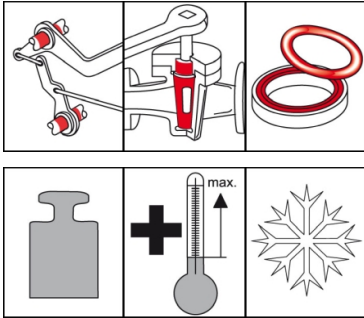


## OKS 100

### MoS<sub>2</sub> Powder, high degree of purity



#### Description

OKS 100 is a MoS<sub>2</sub>-powder to improve the sliding properties of machine elements.

#### Applications

- For sliding properties improvement of machine parts, apparatuses 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<sub>2</sub> 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<sub>2</sub> 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            |
|---|-------------|----------------------|-------------------|------------------|
| <b>Main components</b>                    |             |                      |                   |                  |
| solid lubricants                          |             |                      |                   | MoS <sub>2</sub> |
| share of solid lubricants                 | DIN 51 814  |                      | percent in weight | > 98.5           |
| <b>Application related technical data</b> |             |                      |                   |                  |
| 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/cm <sup>3</sup> | 4.8              |
| <b>Product specific technical data</b>    |             |                      |                   |                  |
| particle size                             | ISO 13320-1 | d 50                 | µm                | 12.0-30.0        |
| particle size                             |             | max. d 99            | µm                | max. 150         |
| <b>Properties and approvals</b>           |             |                      |                   |                  |
| UFI                                       |             |                      |                   |                  |

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