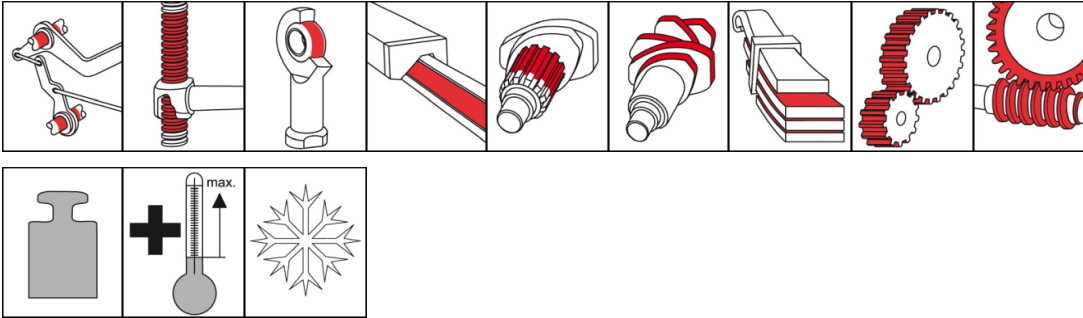


# OKS 110

## MoS<sub>2</sub> Powder, microsize



### Description

OKS 110 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, especially for microfinished surfaces
- For incorporation in plastics, sealings, packages, sintered metals and improvement of sliding properties
- For long-term or possibly lifetime-lubrication

### Branches

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

### 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 sulphuric- and nitric acid

### 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

- 1 kg Can
- 5 kg Hobbock
- 25 kg Hobbock

# OKS 110

## MoS<sub>2</sub> Powder, microsize

### Technical data

|   | Standard    | Conditions                | Unit              | Value            |
|---|-------------|---------------------------|-------------------|------------------|
| <b>Main components</b>                    |             |                           |                   |                  |
| solid lubricants                          |             |                           |                   | MoS <sub>2</sub> |
| degree of purity                          |             | MoS <sub>2</sub> -content | 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                | 2.5-5            |
| particle size                             |             | max. d 99                 | µm                | max. 15          |

### OKS Spezialschmierstoffe GmbH

Ganghoferstraße 47

82216 Maisach

+49 8142 3051 - 500

info@oks-germany.com

www.oks-germany.com



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