



## OKS 100 - Product Information

### OKS 100 MoS<sub>2</sub>-Powder, Highly Refined

#### Fields of Application:

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.

#### Application:

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. For additional questions please contact our Technical Department.

#### Additional Information:

Packaging (article number):

- 1 kg Tin (00100034)
- 5 kg Hobbock (00100050)
- 25 kg Hobbock (00100062)

Version:

E-04.1/13



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## Technical Data

|                             | Norm         | Conditions           | Unit   | Value                   |
|-----------------------------|--------------|----------------------|--------|-------------------------|
| <b>Solid Lubricants</b>     |              |                      |        |                         |
| Type                        |              |                      |        | MoS <sub>2</sub>        |
| Particle size               | ISO 13320-1  | d 50<br>max. d 99    | µm     | 4,0 - 15,0<br>max. 48,0 |
| Total                       | DIN 51 814   |                      | mass-% | > 98,5                  |
| <b>Application Data</b>     |              |                      |        |                         |
| Density                     |              |                      | g/ml   | approx. 4,8             |
| Colour                      |              |                      |        | grey-black              |
| <b>Service Temperatures</b> |              |                      |        |                         |
| Lower service temperature   |              |                      | °C     | -185                    |
| Maximum service temperature |              | in normal atmosphere | °C     | 450                     |
| Maximum service temperature |              | in vacuum            | °C     | 1100                    |
| Maximum service temperature |              | in inert gas         | °C     | 1300                    |
| <b>Miscellaneous</b>        |              |                      |        |                         |
| Electrical conductivity     | DIN 51 412-1 |                      |        | non-conductive          |

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