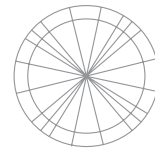


# MicroSlide Tribological Coating

A VERSATILE SOLID LUBRICANT



Optics &  
Sensors



Aerospace &  
Defence

Blösch's Molybdenum Disulfide MoS<sub>2</sub> tribological coating is ideal for space applications.

## Key features

- MoS<sub>2</sub> coating process for space applications
- Coating Technology: PVD (Sputtering)
- VILAB No. 57.406.1 B: Steel, aluminum, titanium not anodized, strong ion etching
- VILAB No. 57.406.1 C: Anodised aluminum and titanium (electrochemically anodised), POM, weak ion etching

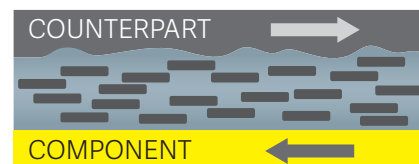
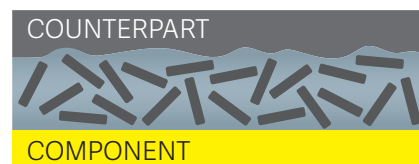
## Customized service offering

- In-house design and fabrication of holding tools
- Advanced masking options
- Demagnetization of iron parts
- Ultrasonic cleaning
- Plasma etching in the coating chamber
- Storage and packaging according to regulations
- CoC with protocol, documentation, traceability guaranteed
- Control – Thickness (Talysurf or XRF on the sample)
- Tribo test at 97% humidity (worst case)



## Technical data

- Chemical composition: chemically pure MoS<sub>2</sub>
- Layer thickness: 0.2 – 0.5 µm for ball bearings  
0.5 – 1.5 µm for sliding parts and gears
- Coefficient of Friction : 0.005 (UHV)  
0.15 (97% humidity)
- Temperature range of use: -260 to 350°C
- Specific wear rate: n.a.
- Adhesion: depends on the substrate  
(very good on metals, e.g. Steel, Al, Ti, sufficient on plastic)
- Nanohardness: 5 to 10 GPa on high-speed steel
- Structure: hexagonal



— MoS<sub>2</sub> MICROSTRUCTURE

Alignment of the MoS<sub>2</sub> microstructure parallel to the sliding orientation after run-in phase

Contact

