

SUCASLIDE®

Smooth through every challenge –
engineered for endurance.

SUCASLIDE® is characterized by significantly improved sliding properties compared to conventional PVD coatings. Both in dry machining and with the use of minimum quantity lubrication, a noticeable optimization of tribological properties is observed. Friction is effectively reduced, minimizing adhesion between contact partners and providing long-term protection for both friction surfaces.

The coating is particularly beneficial for the running-in behavior of tools and precision components. Its uniform and stable layer structure facilitates the running-in process, leading to increased process reliability and longer service life. Even under critical conditions, the coating demonstrates enhanced emergency running properties, maintaining functionality even in the event of temporary lubricant failure.

The coating is specifically suitable for low-tempered steels and, thanks to its low process temperature of approximately 200 °C, can also be applied to temperature-sensitive substrates. Furthermore, the layer can be flexibly combined with other PVD and CVD hard coatings to create customized coating systems for demanding applications.

COATING ADVANTAGES

- » Significant improvement in sliding behaviour
- » Reduced adhesive wear
- » Suitable for low-tempered steels
- » High hardness
- » Low friction coefficient

COATING PROPERTIES

Hardness	1,000 ±200 HV
Coating thickness	1.5 ±1.0 µm
Maximum operating temperature	400 °C / 750 °F
Coefficient of friction against steel	0.05 – 0.10
Colour	Black
Coating composition	a-C:Me

APPLICATIONS

- » Machining: non-ferrous metals, in particular aluminium
- » Forming: non-ferrous metals, in particular aluminium
- » Plastics: mold surfaces, pushers and ejectors
- » Precision components
- » Motor and gearbox parts
- » Gear wheels
- » Bearing and valve parts
- » Sealing and guide elements
- » Paper slitters, industrial blades
- » Food and refrigeration industry components (dry operation)
- » Medical technology