

SUCASLIDE®

The DLC coating from voestalpine eifeler

Amorphous carbon coating – for use on tools, bearings and precision components.

SUper **C**arbon **S**LIDE is a metalliferous, amorphous carbon coating (a-C:Me) from voestalpine eifeler. This PVD coating displays all the benefits of a modern, friction-reducing coating:

- » Good adhesive strength
- » Very hard
- » Sufficient coating thickness (approx. 2 µm)
- » Low friction coefficient
- » Very dense and smooth coating structure
- » Biocompatible

PRODUCT FEATURES

- » Significant improvement in sliding behaviour compared to conventional PVD coatings (both for dry machining as well as in the case of minimal lubrication)
- » Reduced adhesive wear, both friction parties are protected
- » Promotes good running-in in tools and precision components
- » Improvement in emergency running properties
- » Suitable for low-tempered steels (case-hardened, spring and ball bearing steels)
- » Low coating temperature: approx. 200 °C
- » Can be combined with other PVD and CVD hard coatings

APPLICATIONS

Tools	Forming and cutting tools for non-ferrous metals, in particular aluminium (e.g. IHU) Injection moulding tools – for both mould surfaces as well as pushers/ejectors (allows completely dry running)
Components	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

COATING PROPERTIES

Hardness	1,000 - 1,200 HV
Max. application temperature	400 °C / 750 °F
Coefficient of friction against steel	0.05 - 0.10
Coating thicknesses	1.5 - 2.5 µm
Colour	black

