

CVD TIC

Titanium carbide – The coating with extremely high hardness

The extremely high hardness of TiC provides significant durability improvements in the area of metal forming of thick sheet metals. CVD coating technology guarantees the highest adhesive strength and wear reserve for tools which are not too critical concerning dimensional tolerances. After the coating, a high-gloss polish of the functional areas guarantees friction-reducing surfaces.

PRODUCT FEATURES

- » Extreme hardness
- » Very good adhesive strength
- » Higher coating thicknesses compared to PVD coatings

APPLICATIONS

Punching and forming	Drawing, stamping, pressing and forming tools for the working of Fe-metals and steel plates. Especially suited to the processing of rustproof stainless steels.
Deposition technology	Coatings are applied using CVD methods at approximately 1,000 °C. This guarantees the highest adhesive strength. The higher coating thicknesses of up to 9 micrometres made possible using CVD methods provide a welcome wear reserve in many applications.

COATING PROPERTIES

Hardness	3,700 ± 500 HV
Max. application temperature	300 °C / 572 °F
Coefficient of friction against steel	0.2
Coating thicknesses	up to 9 µm
Colour	metallic grey

