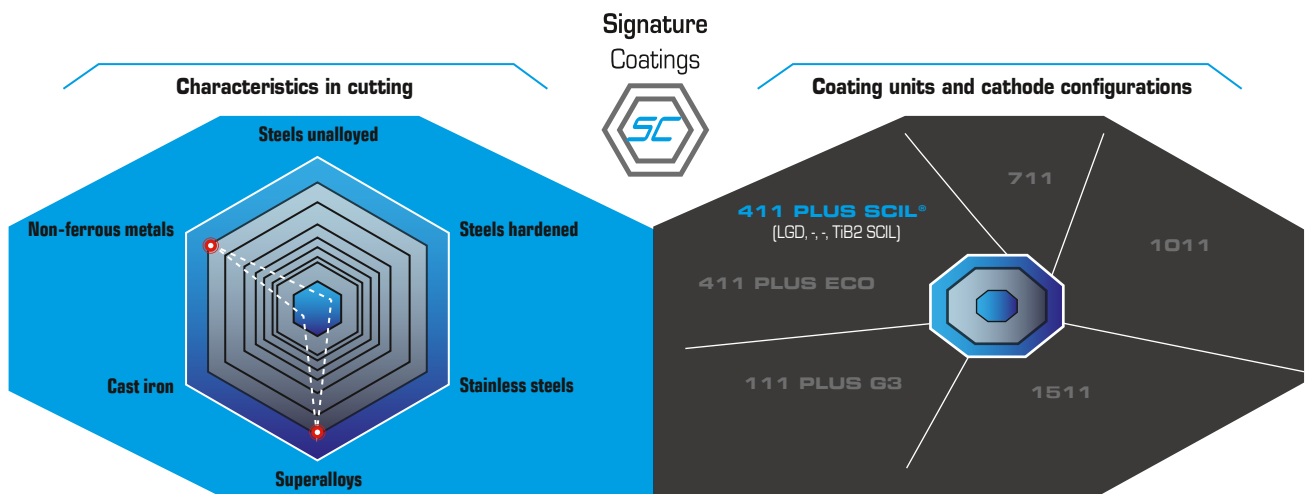


SPUTTER COATING FOR ALUMINUM MACHINING

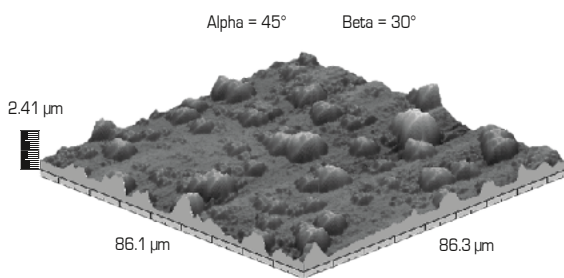
TiB2 is one of the most efficient PLATIT SPUTTER coatings. With a SCIL® configuration (SPUTTERED Coating Induced by Lateral Glow Discharge) nano-hardness of 32 GPa is achieved, which can be increased to 38 GPa with a hybrid LACS® configuration (Lateral ARC with central SPUTTERING). That means Ti alloys can be machined as well.

Highlights:

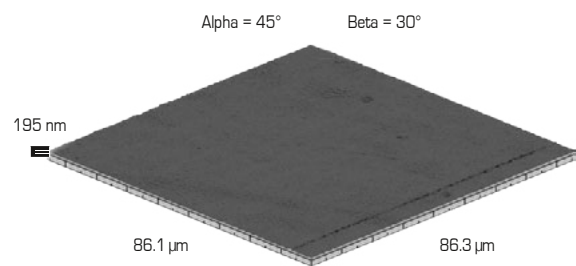
- Universal applications in aluminum
- Available in two versions: SPUTTERED SCIL® or hybrid LACS® coating
- Reduces adhesion to cutting-edge
- Increased wear-resistance



Comparison of the roughness of coatings for aluminum machining:



Zr-N
Coated with Pi411 with hybrid LACS® configuration



TiB2
Coated with Pi411 with SCIL® configuration

Measured with AFM on a carbide test piece, same scale

Specifications

Color satin silver

Nano-hardness [GPa] 32 - 38

Coefficient of friction [μ] PoD (at RT, 50 % humidity) 0.4

Coating thickness [μm] 1 - 5

Max. service temperature [°C] 600

Coating temperature [°C] 200 - 400