

Signature Coating TiBor

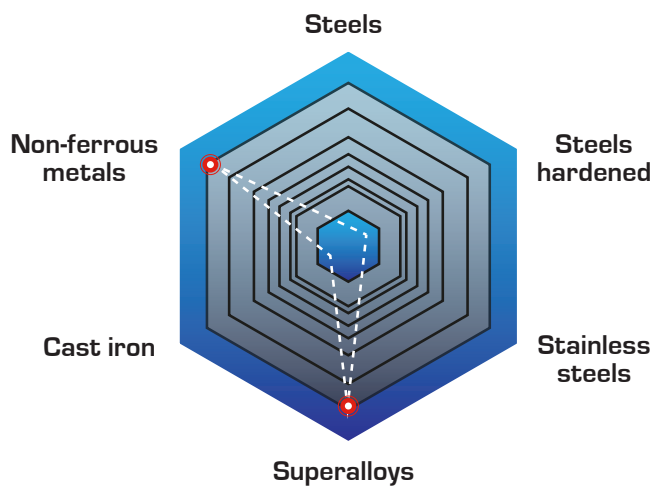
LACS® coating for aluminum & titanium alloy machining

TiBor is one of the most efficient PLATIT LACS® coatings. The patented hybrid process of LARC® and central SPUTTERING SCIL® achieves a droplet-free surface which avoids built-up edges. Thus, the cutting edge will be sharp. TiBor performs very well in milling, drilling and reaming of aluminum, titanium and other non-ferrous metals like copper or brass.

Highlights:

- Use for applications which favor build-up edge like Ti6Al4V (grade 5 / TC4) or aluminum
- Highly accurate coating for precise machining
- Increased wear-resistance

Characteristics in cutting:

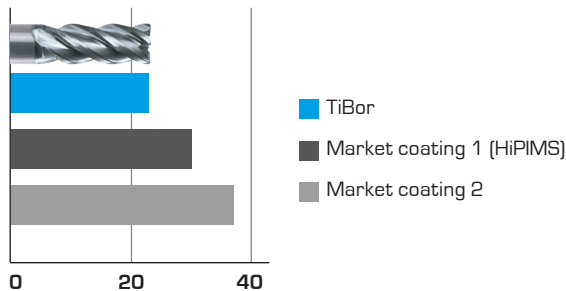


Specifications

Color	satin silver
Nano-hardness [GPa]	45
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
411 PLUS LACS®	(Ti, -, -, TiB2 SCIL)

Rough milling in Ti6Al4V (TC4):

Wear Vb [μm] after 10 h



Tool: end mill
 Workpiece material: Ti6Al4V (TC4)
 Spindle speed: 6500 rpm
 Cutting speed vc: 1800 mm / min ap= 0.2 mm; ae=3.6 mm
 Source: Chinese tool manufacturer



TiBor