## Signature Coating TiB2

## LACS® coating for aluminum & titanium alloy machining

TiB2 is one of the most efficient PLATIT LACS<sup>®</sup> coatings. The patented hybrid process of LARC<sup>®</sup> and central SPUTTERING SCIL<sup>®</sup> achieves a droplet-free surface which avoids built-up edges. Thus, the cutting edge will be sharp. TiB2 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



## 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

