

Signature Coating Ti-BX

LACS coating for aluminum & titanium alloy machining

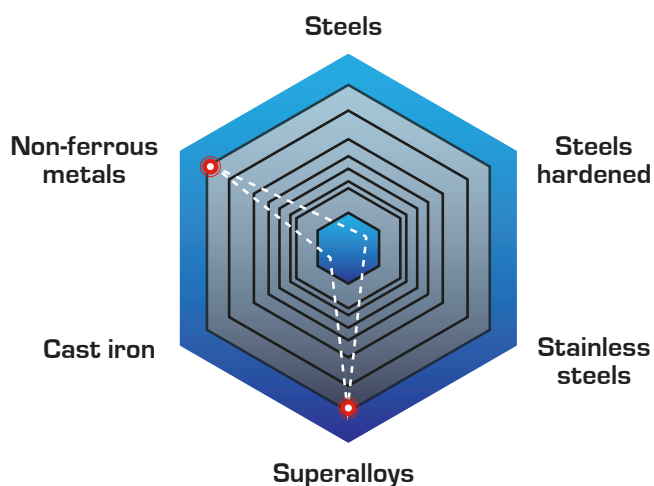


Ti-BX summarize PLATITs specialized high-end coating solutions deposited by SCIL and hybrid LACS technology on TiB₂ + X material basis. Ti-BX leaves a smooth, droplet-free surface, keeping cutting tools sharp and preventing built-up edges during operation. Ti-BX coatings perform excellent in milling, 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), Inconel718 or aluminum
- Highly accurate coating for precise machining
- Increased wear-resistance

Characteristics in cutting:

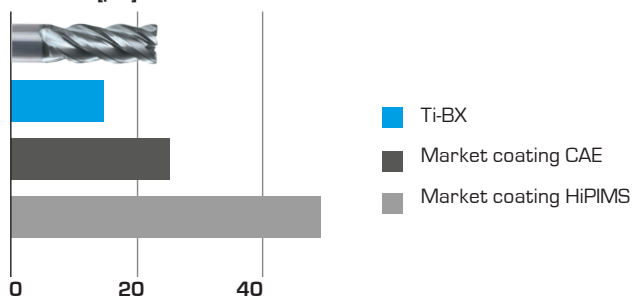


Specifications

Color	satin silver
Nano-hardness [GPa]	36–38
Coefficient of friction [μ] PoD (at RT, 50% humidity)	0.4
Coating thickness [μm]	1–4
Max. service temperature [°C]	600
Coating temperature [°C]	200–400
411 G3 SCIL/FMS	LGD, -, -, TiB ₂ SCIL
411 G3 LACS	-, -, Cr, TiB ₂ SCIL

Rough milling in Ti6Al4V (TC4):

Wear V_b [μm] after 10 h



Tool: solid carbide drill Ø 5 2-flute 5xD
 Workpiece material 3.7165 / TiAl6V4 / TC4 / grade 5 ASTM B265 950 N/mm²
 Par.: vc = 60 m/min, fn = 0.098 mm/rot,
 ap = 22.5 mm, blind hole drilling, cooling emulsion
 Source: PLATIT Cutting Lab, Switzerland



Calo: Ti-BX