

TITANIUM CARBONITRIDE

TiCN

TiCN has a fine grain dense structure that provides excellent toughness and high hardness. TiCN is harder and tougher than TiN, consequently it exhibits a high resistance to edge chipping.

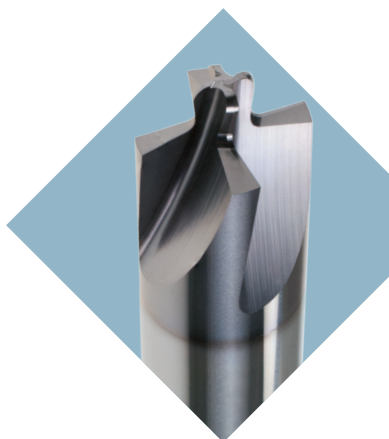
This coating is a good choice for milling, forming and punching tools that encounter high mechanical stresses. TiCN is also recommended for applications cutting highly abrasive and/or gummy materials such as cast iron, brass and some cast aluminium alloys. LVEB TiCN is extremely smooth.

Applications and benefits

- High performance applications
- Difficult to machine materials
- Abrasive materials, eg: cast iron and aluminium alloys
- Adhesive materials, eg: copper and copper based alloys
- Higher speeds and feeds possible for enhanced machine productivity compared to TiN
- Wear resistance and toughness superior to TiN

Improved performance with

- Higher speed conventional milling
- Gear cutting tools
- Heavy duty stamping
- Plastic moulds and extrusion tools for plastics containing >30% glass fillers (abrasion resistance)
- Deep drawing tools



Colour	Blue - Grey
Coating Thickness	2 - 4 μm
Microhardness	3000 HV
Thermal Stability	up to 400°C
Coeff. Friction vs Steel	0.4

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