

# Signature Coating TiXCo3

## Super-hard machining coating

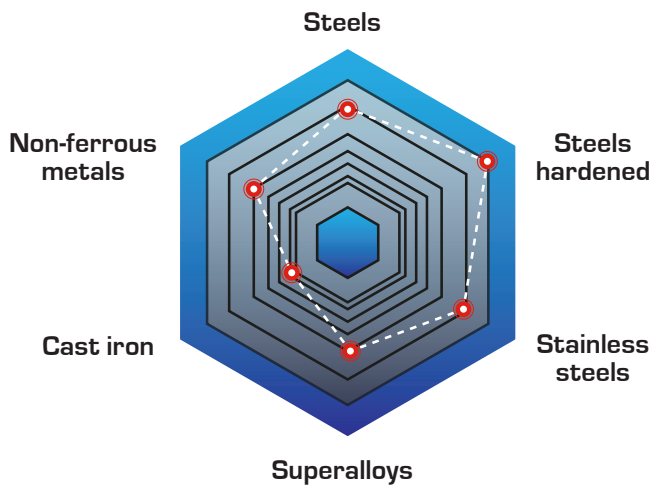


As our hardest nanocomposite, TiXCo3 is especially suitable for hard machining. It can be used at very high temperatures and is therefore suitable for finishing processes in milling, drilling and reaming.

### Highlights:

- High surface quality
- Extremely hard and very wear-resistant
- For super-hard machining

### Characteristics in cutting:

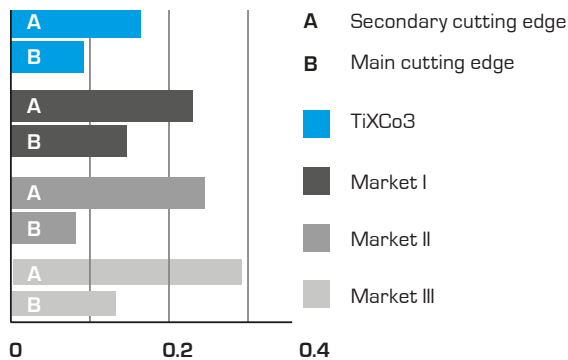


### Specifications

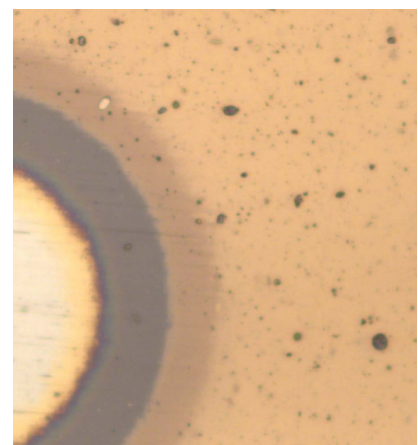
Color	copper
Nano-hardness [GPa]	42–44
Coefficient of friction [μ] PoD (at RT, 50% humidity)	0.4
Coating thickness [μm]	1–4
Max. service temperature [°C]	1,100
Coating temperature [°C]	450–500
111 G3	AlTi33, TiSi20
411 G3	Ti, Al, TiSi20

### Milling in X155CrVMo with end mill:

#### Wear Vb [μm]



Tool: end mill; Ø0.5 z2  
 Workpiece material: 1.2379 / 60-62 HRC X155CrVMo12-1 D2 / SKD11  
 Cooling: dry air, 5 bar; ap = 0.09 mm; ae = 0.06 mm;  
 n = 16 820 rpm; f = 0.1 mm/rot  
 Source: South Korean tool manufacturer



Coat: TiXCo3