

TiCN (titanium carbonitride)

The tough one.

TiCN is used wherever great hardness and sufficient toughness are needed in combination.

Very high wear resistance and protection against galling and fretting.

Properties

Type	Hard material coating
Process	PVD
Material	TiCN
Hardness	3.000 HV
Coating thickness	0,5–3 µm
Coefficient of friction vs. steel	0,3
Coating temperature	300–450 °C
max. Service temperature	400 °C
Colour	light blue grey

Sample applications

- heavy duty cooled machining
- high load punching and forming
- punching and forming of stainless steels
- injection moulding of materials with mechanically aggressive fractions or fillers

