

TiAlN (titanium aluminium nitride)

Hard and heat resistant.

Particularly stable under the action of heat and chemicals, at the same time extremely hard and smooth, this is ideal for machining jobs with little or no cooling lubricants. Its dark blue grey colour makes it highly decorative.

Properties

Type	Hard material coating
Process	PVD
Material	TiAlN
Hardness	3.300 HV
Coating thickness	0,5–3 µm
Coefficient of friction vs. steel	0,3
Coating temperature	300–450 °C
max. Service temperature	800 °C
Colour	dark blue grey

Sample applications

- dry machining
- precision components
- punching and forming under high local thermal load
- HSC and machining hardened steels
- decoration

