

TITANIUM ALUMINIUM NITRIDE

TiAlN

Futura Nano

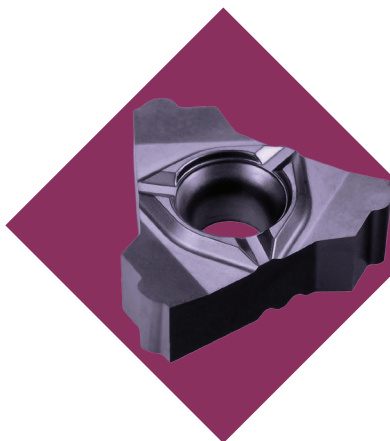
TiAlN produced in the INNOVA, is a great all round coating for both HSS and carbide tools, especially in applications where there is a high thermal load. TiAlN has a nanolayered structure which was engineered to give an optimum balance between hardness and internal stress. High internal compressive stresses help to reduce the propagation of cracks through a coating therefore delaying the onset of failure. TiAlN also has improved sliding properties.

Applications and benefits

- Abrasive materials, eg: cast iron and heat treated steel
- Difficult to machine materials, eg: stainless steel
- Higher speeds and feeds
- Reduces or eliminates use of coolants

Improved performance with

- Higher speed and feed machining
- Dry or MQL machining
- Machining of harder materials



Colour	Violet - Grey
Coating Thickness	4 μ m
Microhardness	3300HV
Thermal Stability	up to 900°C
Coeff. Friction vs Steel	0.3 - 0.35

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