

# TiN

## Titanium nitride – the all-round and high-performance coating

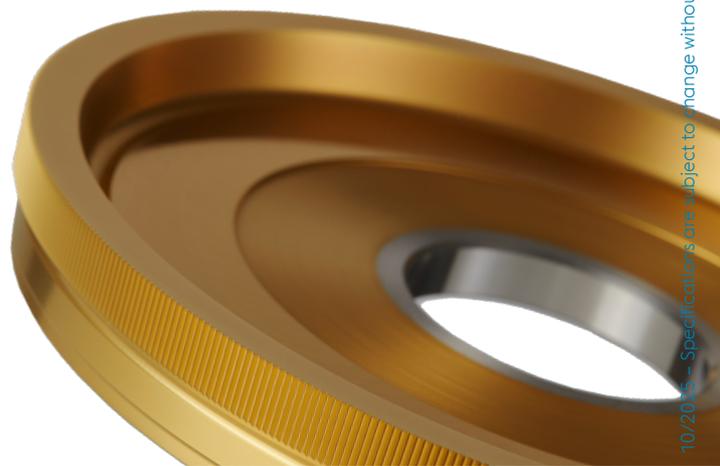
TiN displays very low reactivity to ferrous metals. This greatly reduces tool wear due to cold welding.

Its attractive golden colour combined with the high resistance towards abrasion means TiN is often used as a coating in decorative applications.

Its high chemical inertness means TiN is especially suitable for use in the foodstuffs and medical technology industries.

### APPLICATIONS

<b>Cutting</b>	Machining and cutting of Fe-metals and steel materials. Hobbing, drilling, thread cutting with low and medium cutting data.
<b>Forming</b>	Drawing, stamping, pressing and forming tools for the working of steel plates; cold forging
<b>Plastic moulding</b>	For tools subject to high abrasive wear, e.g. mineral-filled organic moulding compounds; improved demoulding of injection-moulded parts
<b>Others</b>	Foodstuffs industry, medical technology, decorative applications



10/2020 – Specifications are subject to change without notice

### COATING PROPERTIES

<b>Hardness</b>	2,300 ±200 HV
<b>Coating thickness</b>	1–4 µm
<b>Maximum operating temperature</b>	500 °C / 930 °F
<b>Coefficient of friction against steel</b>	0.6
<b>Colour</b>	gold
<b>Coating composition</b>	TiN-based