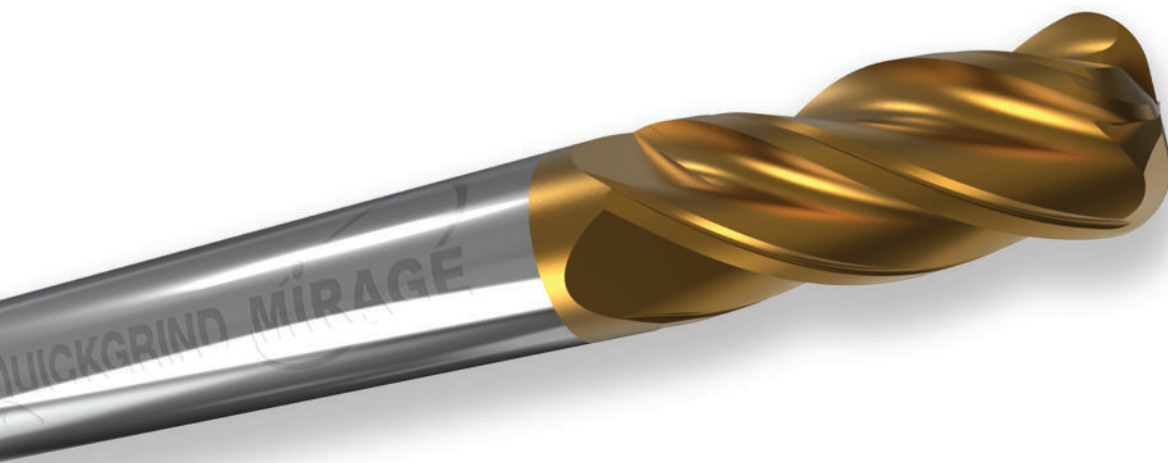


Coating datasheet

TiN



INFINITE POSSIBILITIES.®

QUICKGRIND®
carbide tooling

TiN

Coating datasheet



The TiN multi-purpose coating for a range of applications

Our TiN coating is a multi-purpose solution for low and medium cutting speeds. It is a cost-effective solution designed for tools in a variety of general machining conditions where a high-end coating is not needed. It is ideal for milling, drilling and turning mild steels at cutting speeds below 100 M/min.

All cutting data shown is subject to application and machining parameters. Please contact our Technical Support team for advice.

Technical data

Coating material	TiN
Coating thickness	2-4µm
Deposition process	PVD Arc
Hardness HV 0.05	2800
Oxidation temperature	500°C
Coefficient of friction	<0.5
Process temperature	450-550°C
Colour	Gold

Cutting speed M/min	40	60	80	100	120	140	160	180	200	220	250	300
Steels up to 700 N/mm ²												
Steels 800-1000 N/mm ²												
Steels >1400 N/mm ²												
Tool steels >45-55 Hrc												
Tool steels >55-60 Hrc												
Cast iron												
Martensitic stainless steels												
Austenitic stainless steels												
Titanium up to 900 N/mm ²												
Titanium alloys >900 N/mm ²												
Nickel alloys up to 900 N/mm ²												
Nickel alloys >1200 N/mm ²												