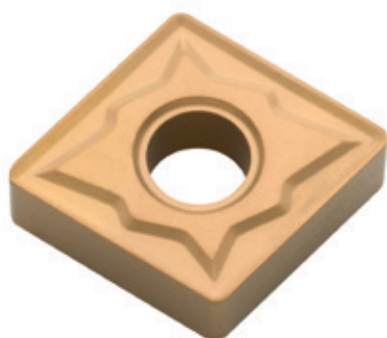




Ionbond™ CVD 13 TiCN-TiC-TiN



Ionbond™ CVD 13

Ionbond™ CVD 13 is a multipurpose CVD coating for high-volume machining of metals, especially steels. Its primary feature is the ideal combination of wear resistance and toughness.

The combination of TiC and TiCN results in an exceptional rupture strength of the cutting edges at low to medium cutting speeds. TiN as a surface layer optimizes friction-caused wear and the running-in behavior of the tool, due to its low coefficient of friction.

Ionbond™ CVD 13 is applied by means of CVD at ca. 1000 °C and is suited for cemented carbide cutting inserts as well as for high-alloyed, secondary hardened tool steels.

Technical Data

Material	TiCN – TiC – TiN
Technology	CVD
Thickness range	8 – 10 µm
Microhardness HV 0.05	2600 – 2800
Friction vs. steel (dry)	0.30
Max. service temperature	800°C
Process temperature	1000°C
Color	Gold