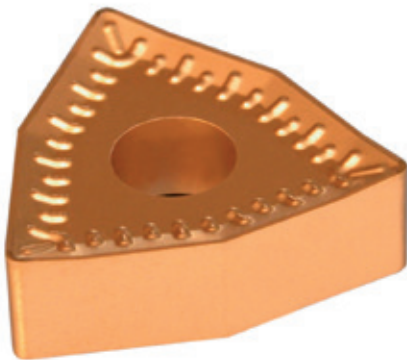




Ionbond™ CVD 08 TiBN



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Ionbond™ CVD 08 TiBN is a special multi-layer coating applied on tools used in high-volume machining. Applied by means of the CVD coating procedure, it exhibits a particular hardness and wear resistance due to Bor in TiBN. In addition, Ionbond™ CVD 08 TiBN features a particularly low coefficient of friction, which facilitates chip flow when machining stainless steels.

The combination of $\kappa\text{-Al}_2\text{O}_3$ and TiBN delivers an extremely high hot-hardness and a very low thermal conductivity, which significantly increases the tool's lifetime. TiN, as a top layer, protects the hard TiBN coating from breakage during the cutting start-up phase.

Ionbond™ CVD 08 TiBN is applied at ca. 1000°C and is suited for cemented carbide cutting inserts exclusively.

Technical Data

Material	Ti (B,C,N)
Technology	CVD
Thickness range	12 – 16 μm
Microhardness HV 0.05	3500
Friction vs. steel (dry)	0.20
Max. service temperature	1000°C
Process temperature	800 – 1000°C
Color	Grey