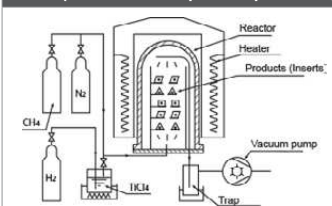


CVD INSERT GRADES

CVD COATED CARBIDE



CVD (Chemical Vapor Deposition)



Features

- ① Equally deposited on face
- ② Easy application for multilayer deposition
- ③ Enabling thick coating

Processing Temperature: 900° ~ 1100°C

CVD COATED CARBIDE

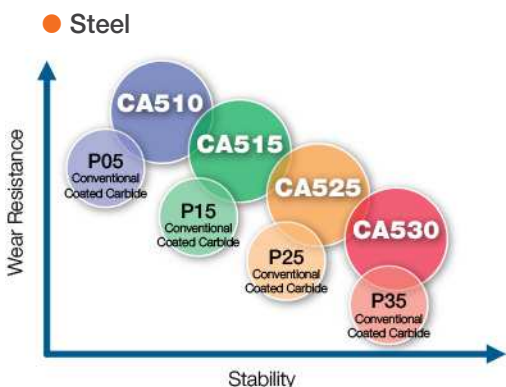
KYOCERA's CVD coated carbide grades are based on ceramic thin film technology and provide stable, efficient cutting at high speeds or heavily interrupted applications.

- Applicable from low to high speed cutting and from finishing to roughing
- Stable cutting is achieved due to the superior toughness and crack resistance
- Cutting times are reduced due to good chip control from effective chipbreakers

FEATURES OF CVD COATED CARBIDE

Material	Description	Color	Main Component (Coating Composition)	Advantages
P Steel	CA510	Gold	Micro Columnar TiCN+Al ₂ O ₃ +TiN	· Special substrate with thermal deformation resistance along with a thick and tough film coating for wear resistance · Application: High speed and high efficiency steel machining
	CA515	Gold	Micro Columnar TiCN+Al ₂ O ₃ +TiN	· Special substrate and tough coating film provides thermal deformation and high wear resistance · Application: Continuous to light interrupted steel machining (general use)
	CA525	Gold	Micro Columnar TiCN+Al ₂ O ₃ +TiN	· Special substrate and tough coating film provides high wear and fracture resistance · Application: 1st choice for steel machining
	CA530	Gold	Micro Columnar TiCN+Al ₂ O ₃ +TiN	· Special tough substrate and tough coating film provides high stability and wear resistance · Application: General to heavy interrupted machining (stability oriented)
	CA5505	Gold	Micro Columnar TiCN+Al ₂ O ₃ +TiN	· Improved wear resistance due to hard carbide substrate and micro columnar structure of coated composition · Application: High speed continuous cutting of steel, continuous to light interrupted cutting of cast iron
	CA5515	Gold	Micro Columnar TiCN+Al ₂ O ₃ +TiN	· Improved wear resistance and longer tool life due to micro columnar structure of coated composition · Application: High speed cutting of steel, continuous to light interruption
	CA5525	Gold	Micro Columnar TiCN+Al ₂ O ₃ +TiN	· Improved toughness and wear resistance due to tougher carbide substrate and micro columnar structure of coated composition · Application: First choice for general cutting of steel, roughing to interruption
	CA5535	Gold	Micro Columnar TiCN+Al ₂ O ₃ +TiN	· Improved toughness due to tougher carbide substrate · Application: Roughing to heavy interrupted cutting of steel
	CR9025	Gold	Columnar TiCN+TiN	· Improved toughness and stability due to specialized carbide substrate with plastic deformation resistance · Application: Cut-off, grooving and multi-function cutting of steel
M Stainless Steel	CA6515	Gold	Micro Columnar TiCN+Al ₂ O ₃ +TiN	· Specialized carbide substrate for stainless steel cutting, excellent wear resistance · Application: Continuous to light interrupted cutting of stainless steel
	CA6525	Gold	Micro Columnar TiCN+Al ₂ O ₃ +TiN	· Specialized carbide substrate for stainless steel cutting, excellent notching resistance and toughness · Application: First choice for general cutting of stainless steel, from finishing to roughing, continuous to interruption
K Cast Iron	CA4010	Gold	Columnar TiCN+Al ₂ O ₃ +TiN	· Excellent high temperature stability due to plastic deformation and oxidation wear resistance · Application: Continuous to light interrupted high speed cutting of cast iron
	CA4115	Gold	Micro Columnar TiCN+Al ₂ O ₃ +TiN	· Improved wear resistance due to micro columnar structure of coated composition · Application: Nodular cast iron cutting, continuous to light interruption
	CA4120	Gold	Micro Columnar TiCN+Al ₂ O ₃ +TiN	· Improved toughness and wear resistance due to tougher carbide substrate and micro columnar structure of coated composition · Application: Roughing to heavy interrupted cutting of nodular cast iron
	CA4505	Blackish gray	Micro Columnar TiCN+Al ₂ O ₃	· Stable, long tool life due to improved bounding force of coated layers and special treatment on the surface of top coated layer · Application: For gray cast iron and nodular cast iron at high speed in continuous to light interrupted cutting
	CA4515	Blackish gray	Micro Columnar TiCN+Al ₂ O ₃	· Stable, long tool life due to improved bounding force of coated layers and special treatment on the surface of top coated layer · Application: First choice for gray cast iron and nodular cast iron in light to heavy interrupted cutting

Application Map



Stainless Steel

Classification	High	CA6515		
	Low	CA6525 (First Choice Grade)		PR1125
Application	Continuous	Light Interruption	Interruption	