

HORIZON UNCOATED CARBIDE GRADES				
Grade	ANSI	ISO	Color	Description
C10	C1 \ C5	K40 / P40	Gray	Tough Grade for small diameters or severe applications at low speeds.
C20	C2	K20 - K25	Gray	Uncoated Grade for Non-Ferrous materials. <i>Non-Stock</i>
C23	C2-C3	K10-K20 / M20	Gray	Premium C2-C3 Grade for Non-Ferrous Metals, Plastics and Non-Metals.
C23J	C2-C3	K10-K20 / M20	Gray	Grade C23 Inserts with Polished Chipbreakers for Aluminum, Copper and Plastics. The Polished Tops and Sharp Edges help prevent Chip Build-up.
C56	C5-C6	P20-P30	Gray	Uncoated Grade for Carbon and Alloy Steels at medium speeds. <i>Non-Stock</i>
HCC	C4 \ C7	P10 / K05	Silver	Ceramet Grade for finishing at high speeds and light feed rates. <i>Non-Stock</i>

HORIZON COATED CARBIDE GRADES				
Grade	ANSI	ISO	Color	Description
110	C1-C2 / C5	K25-K40 / P50	Gold	Tough PVD TIN Coated Micrograin Grade for Low to Medium Speeds. Good for small diameter work under 1" and Screw Machine applications.
120	C2-C3	K15-K25 / M20	Gold	PVD TIN Coated C2 Grade for special applications. <i>Non-Stock</i>
123	C2-C3 / C6	K10-K20 M15-M20	Gold	PVD TIN Coated C2-C3 Grade for Threading, Grooving and Finishing. Use TiALN coated Grades 310, 323 or 323F for Higher Performance & Longer Tool Life in 300 Series Stainless Steel, Titanium and High Temp Alloys
156	C5-C6	P20-P30	Gold	PVD TIN Coated C5-C6 Grade for Threading and Grooving Carbon & Alloy Steels. Use 356, 323 or 323F for Higher Performance and Longer Tool Life.
223	C2-C3	K10-K25 / M20	Blue-Gray	PVD TiCN Coated C2-C3 Grade for special applications. <i>Non-Stock</i>
256	C5-C6	P20-P30	Blue-Gray	PVD TiCN Coated C5-C6 Grade for special applications. <i>Non-Stock</i>
310	C1-C2 C5-C6	K25-K40 M25-M35 P35-P50	Bronze	Tough PVD TiALN Coated Micrograin Grade Designed for Face Grooving. Also for Threading & Grooving smaller parts under 1" diameter at low to medium speeds. (Not recommended for Copper or Aluminum)
323	C2-C3 C6-C7	K10-K25 M15-M25 P15-P25	Bronze	High Performance PVD TiALN Coated Grade. First choice for Threading Grooving and Finishing 300 Series Stainless, Titanium & High Temp Alloys. Works well on Iron and Steel at Medium Speeds and Light Feed Rates. (Not recommended for Copper or Aluminum)
323F	C2-C3 C6-C7	K10-K25 M15-M25 P15-P25	Gray-Black	PVD TiALN Coated Grade similar in performance to 323. Smooth coating can be used on Aluminum without galling. Most Laydown Threading and High Positive Aluminum Screw Down Inserts are available in Grade 323F. All other Inserts in this Grade are <i>Limited-Stock</i> items.
323G	C2-C3 / C7	K10-K25 / M20	Gold	PVD TiALN Coated. Special enhanced version of Grade 323. <i>Non-Stock</i>
356	C5-C6	P20-P30	Bronze	PVD TiALN Coated Grade. 1st Choice for General Purpose use on Steels.
423	C2-C3 / C6	K10-K20 / P15	Gold	CVD TIN Coated Non-Ferrous Grade for special applications. <i>Non-Stock</i>
456	C5-C6	P20-P30	Gold	CVD TIN Coated Steel cutting Grade for special applications. <i>Non-Stock</i>
523	C2-C3 / C7	K10-K20 / P15	Gold	CVD Multi-Coated Steel cutting Grade for special applications. <i>Non-Stock</i>
556	C5-C6	P20-P30	Gold	CVD Multi-Coated Steel cutting Grade for special applications. <i>Non-Stock</i>
623	C3-C4	K10-K15	Black	CVD Aluminum Oxide coated for Cast Iron & Hard Materials. <i>Non-Stock</i>
BOLD = Standard Horizon Grades Non-Stock = Non-Stock Grades or Limited Stock Items - Call for availability				