

TaeguTec Grade Chart

Based on Applications (Coated Carbide)

Application	Grade	ISO Range	
Turning	TT7005	K01-K15	Harder ↑ ↓ Tougher
	TT7015	K10-K25	
	TT8105	P01-P15	
	TT8115	P05-P20	
	TT9215	M05-M20 S05-S20	
	TT5080	M05-M25 S05-S25	
	TT8125	P15-P30	
	TT5100	P20-P35	
	TT9225	M15-M30 S15-S30	
	TT9020	P20-M40 M20-M40	
	TT9080	M20-M40 S20-S40	
	TT8135	P25-P40	
	TT7100	P30-P45	
	TT8080	P30-P50 M30-M50 S30-S50	

Application	Grade	ISO Range	
Milling	TT2510	P05-P25 H05-H25	Harder ↑ ↓ Tougher
	TT7515	P05-P25 K05-K25	
	TT6080	K05-K25 H05-H25	
	TT7080	P05-P25 K05-K25	
	TT9080	P20-P40 M20-M40 S20-S40	
	TT9030	P20-P40 M20-M40 S20-S40	
	TT7800	P30-P45 M30-M45	
	TT8080	P30-P50 M30-M50 S30-S50	
TT8020	P30-P50 M30-M50 S30-S50		

Application	Grade	ISO Range	
Parting & Grooving	TT7505	K01-K15	Harder ↑ ↓ Tougher
	TT6080	K05-K25 H05-H25	
	TT5100	P20-P35 M20-M35	
	TT9080	P20-P40 M20-M40 S20-S40	
	TT7220	P25-P45 M25-M45	
	TT8020	P30-P50 M30-M50 S30-S50	

Application	Grade	ISO Range	
Holemaking	TT6080	K05-K25 H05-H25	Harder ↑ ↓ Tougher
	TT9300	P10-P25	
	TT7400	P10-P25	
	TT9080	P20-P40 M20-M40 S20-S40	
	TT9030	P20-P40 M20-M40 S20-S40	
TT8020	P30-P50 M30-M50 S30-S50		

Application	Grade	ISO Range	
Threading	TT7010	P05-P25 K05-K25	Harder ↑ ↓ Tougher
	TT9030	P20-P40 M20-M40 S20-S40	
	TT8010	P30-P50 M30-M50 S30-S50	

Application	Grade	ISO Range	
Solid Carbide End Mill & FINEBALL	TT5505	P05-P25 H05-H25	Harder ↑ ↓ Tougher
	TT2510	P05-P25 H05-H25	
	TT5515	P10-P30 M10-M30	
		K10-K30 S10-S30 H10-H30	
	TT5525	P20-P40 M20-M40 S20-S40	
	TT9020	M20-M40	

Based on Grades

Grade	ISO Range	Application					Workpiece Material and Application	
		Turning	Milling	Parting & Grooving	Holemaking	Threading		End Milling / FINEBALL
CVD Coated Carbide	TT5100	P20 - P35 M20 - M35	•	•				Medium turning of low carbon steel and alloy steel Medium & low speed machining of stainless steel
	TT7005	K01 - K15	•	•				High speed continuous turning for gray and ductile cast iron
	TT7015	K10 - K25	•	•				General, continuous and interrupted turning of gray and ductile cast iron
	TT7100	P30 - P45	•					Interrupted and rough turning of steel
	TT7400	P10 - P25			•			High speed drilling of carbon steel and alloy steel
	TT7505	K01-K15			•			High speed turning & grooving of cast iron
	TT7515	K05 - K25 P05 - P25		•				High speed milling of gray and ductile cast iron
	TT7800	P30 - P45 M30 - M45		•				High speed milling of steel
	TT8105	P01 - P15	•					Rough milling of carbon & alloy steel
	TT8115	P05 - P20	•					Medium speed milling of stainless steel
	TT8125	P15 - P30	•					High speed continuous turning of steel
	TT8135	P25 - P40	•					High speed turning of steel
	TT9215	M05 - M20 S05 - S20	•					General turning of steel
	TT9225	M15 - M30 S15 - S30	•					Heavy Interrupted turning of steel. Improved higher toughness and superior fracture resistance
	TT9235	M25 - M40 S25 - S40	•					High speed turning of stainless steel
	TT9300	P10 - P25	•			•		High & medium speed machining of heat-resistant alloy
	TT2510	P05 - P25 H05 - H25		•				General turning of stainless steel
	TT5080	M05 - M25 S05 - S25		•				Medium speed machining of heat-resistant alloy
	TT5505	P05 - P25 H05 - H25		•			•	Low speed and interrupted turning of stainless steel
	TT5515	P10 - P30 M10 - M30 K10 - K30 S10 - S30 H10 - H30		•			•	Low speed machining of heat-resistant alloy
	TT5525	P20 - P40 M20 - M40 S20 - S40		•			•	High speed drilling of carbon & alloy steel
	TT6080	K05 - K25 H05 - H25		•	•	•		High speed milling of steel
	TT7010	P05 - P25 K05 - K25					•	High speed milling of hardened steel
TT7080	P05 - P25 K05 - K25					•	High speed finish turning of stainless steel	
TT7220	P25 - P45 M25 - M45			•			High speed turning of heat-resistant alloy	
TT7800	P30 - P45 M30 - M45			•			High speed milling of steel	
TT8010	P30 - P50 M30 - M50 S30 - S50					•	High speed milling of steel. Excellent wear and heat resistance	
TT8020	P30 - P50 M30 - M50 S30 - S50		•	•	•	•	General milling of stainless steel	
PVD Coated Carbide	TT8080	P30 - P50 M30 - M50 S30 - S50	•	•	•			General milling of cast iron
	TT9080	P20 - P40 M20 - M40 S20 - S40	•	•	•			General milling of heat-resistant alloy
	TT9030	P20 - P40 M20 - M40 S20 - S40	•	•	•			High speed milling of hardened steel. Excellent wear resistance
	TT9300	P20 - P40 M20 - M40 S20 - S40	•	•	•			High speed milling of steel
	TT7800	P30 - P45 M30 - M45	•	•	•			High speed milling of stainless steel
	TT8080	P30 - P50 M30 - M50 S30 - S50	•	•	•			High speed milling of heat-resistant alloy
	TT8020	P30 - P50 M30 - M50 S30 - S50	•	•	•			General machining for gray and ductile cast iron
	TT9080	P20 - P40 M20 - M40 S20 - S40	•	•	•			Finish and medium machining of hardened steel
	TT9300	P20 - P40 M20 - M40 S20 - S40	•	•	•			Threading of steel
	TT9080	P20 - P40 M20 - M40 S20 - S40	•	•	•			Threading of cast iron
Diamond Coated Carbide	TTD610					•		General milling of steel
								Heavy interrupted cutting of cast iron
								Parting, grooving, turn grooving & drilling of steel
								Parting, grooving, turn grooving & drilling of stainless steel
Carbide	K10	K05 - K15 N05 - N15 S05 - S15	•	•	•			For a wide range of threading on low carbon steel & low carbon alloy steel
	P30	P25 - P35	•	•				For a wide range of threading on stainless steel & exotic materials
	UF10	M25 - M35 N25 - N35				•		Toughest grade in threading product line
								Interrupted and rough machining of steel
PVD Cermet	PV3010	P05 - P20 M05 - M20 K05 - K20	•	•	•			Interrupted and rough machining of stainless steel
	PV3030	P05 - P20 M05 - M20 K05 - K20	•	•	•			Low speed and interrupted machining of heat-resistant alloy
Cermet	CT3000	P10 - P20 M10 - M20 K10 - K20	•	•	•			Interrupted and rough machining of steel
	CT7000	P15 - P25 M15 - M25	•	•	•			Interrupted and rough machining of stainless steel
								Low speed and interrupted machining of heat-resistant alloy
Coated Ceramic	AB2010	PVD H01 - H10	•					For small parts turning on steel
	SC10	CVD K20 - K30	•					General machining of stainless steel
Ceramic	AW120	K01 - K10	•					General machining of steel
	AB20	H01 - H10	•					General machining of steel
	AB30	K05 - K15 H05 - H15	•	•				General machining of stainless steel
	AS500	K10 - K20	•	•				General machining of aluminum alloys and non-ferrous materials
	AS10	K20 - K30	•	•				High speed finish machining of carbon steel, alloy steel, mild steel, mold steel and free-cutting steel
	AS20	S05 - S20	•	•				High speed finishing of stainless steel
	TC3020	S10 - S25	•	•				High speed finishing of cast iron
	TC3030	S15 - S30	•	•				High speed finish and medium machining of austenite and martensite stainless steel
	TC430	S01 - S15	•	•	•			High speed finish & medium machining of gray cast iron, nodular and ductile cast iron
	TB610	H01 - H10	•	•				Finish machining of carbon steel, alloy steel, mild steel and mold steel. Good surface roughness
CBN	TB650	H10 - H20	•	•				Finish machining of stainless steel. Good surface roughness
	TB670	H15 - H25	•	•				Finish machining of cast iron
	TB730	K15 - K25 S05 - S20	•	•	•			Finish milling of steel
	KB90	K15 - K25 S05 - S20	•	•	•			Finish milling of stainless steel
	KB90A	K10 - K25	•	•	•			High speed turning of hardened steel. Shiny yellow color
	TD810	N01 - N10	•	•	•			Roughing of cast iron with and without coolant
PCD	TD830	N01 - N30	•	•	•			High speed continuous turning of cast iron. Excellent wear resistance
	KP500	N05 - N15	•	•	•			Turning of high hardness steel and cast iron (HRC 50-65)
	KP300	N10 - N20	•	•	•			Continuous to light interrupted turning of cast iron without coolant
	KP100	N20 - N30	•	•	•			High speed turning of hardened steel (HRC 40-50)

Notice:
This is a standardised classification chart designed for user convenience. In real world conditions performance may vary due to machine, workpiece, working conditions as well as other environmental factors. It is recommended to co-ordinate the concerned application with representative TaeguTec technical staff.