TaeguTec Grade Chart

Based on Applications (Coated Carbide)

Application	Grade	ISO Range (P M K N S H)
Turning	TT7005	K01-K15
	TT7015	K10-K25
	TT8105	P01-P15
	TT7025	K20-K35
	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
	TT9235	M25-M40 S25-S40
	TT8020	P30-P50 M30-M50 S30-S50
Milling	TT2510	P05-P25 H05-H25
	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
Parting & Grooving	TT7505	K01-K15
	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
Holemaking	TT6080	K05-K25 H05-H25
	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
Threading	TT7010	P05-P25 K05-K25
	TT9030	P20-P40 M20-M40 S20-S40
	TT8010	P30-P50 M30-M50 S30-S50
Solid Carbide End Mill & FINEBALL	TT5505	P05-P25 H05-H25
	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

Harder ↑ ↓ Tougher

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.

• English version: CT 09/2018
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Based on Grades

Grade		ISO Range	Turning	Milling	Parting & Grooving	Holemaking	Threading	End Milling / FINEBALL	Workpiece Material and Application
CVD Coated Carbide	TT5100	P20 - P35	●		●				Medium turning of low carbon steel and alloy steel
		M20 - M35			●				Medium & low speed machining of stainless steel
	TT7005 Life+	K01 - K15	●						High speed continuous turning for gray and ductile cast iron
	TT7015 Life+	K10 - K25	●						General, continuous and interrupted turning of gray and ductile cast iron
	TT7025 Life+	K20 - K35	●						Low speed and interrupted cutting 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		●					High speed milling of gray and ductile cast iron
		P05 - P25		●					High speed milling of steel
	TT7800	P30 - P45		●					Rough milling of carbon & alloy steel
		M30 - M45		●					Medium speed milling of stainless steel
	TT8105 Life+	P01 - P15	●						High speed continuous turning of steel
	TT8115 Life+	P05 - P20	●						High speed turning of steel
	TT8125 Life+	P15 - P30	●						General turning of steel
	TT8135 Life+	P25 - P40	●						Heavy Interrupted turning of steel. Improved higher toughness and superior fracture resistance
	TT9215	M05 - M20	●						High speed turning of stainless steel
		S05 - S20	●						High & medium speed machining of heat-resistant alloy
	TT9225	M15 - M30	●						General turning of stainless steel
		S15 - S30	●						Medium speed machining of heat-resistant alloy
	TT9235	M25 - M40	●						Low speed and interrupted turning of stainless steel
		S25 - S40	●						Low speed machining of heat-resistant alloy
	TT9300	P10 - P25				●			High speed drilling of carbon & alloy steel
PVD Coated Carbide	TT2510	P05 - P25		●					High speed milling of steel
		H05 - H25		●					High speed milling of hardened steel
	TT5080	M05- M25	●						High speed finish turning of stainless steel
		S05 - S25	●						High speed turning of heat-resistant alloy
	TT5505	P05 - P25						●	High speed milling of steel
		H05 - H25						●	High speed milling of hardened steel
	TT5515	P10 - P30						●	High speed milling of steel. Excellent wear and heat resistance
		M10 - M30						●	General milling of stainless steel
		K10 - K30						●	General milling of cast iron
		S10 - S30						●	General milling of heat-resistant alloy
		H10 - H30						●	High speed milling of hardened steel. Excellent wear resistance
	TT5525	P20 - P40						●	High speed milling of steel
		M20 - M40						●	High speed milling of stainless steel
		S20 - S40						●	High speed milling of heat-resistant alloy
	TT6080	K05 - K25		●	●	●			General machining for gray and ductile cast iron
		H05 - H25		●	●	●			Finish and medium machining of hardened steel
	TT7010	P05 - P25					●		Threading of steel
		K05 - K25					●		Threading of cast iron
	TT7080	P05 - P25		●					General milling of steel
		K05 - K25		●					Heavy interrupted cutting of cast iron
	TT7220	P25 - P45			●				Parting, grooving, turn grooving & drilling of steel
		M25 - M45			●				Parting, grooving, turn grooving & drilling of stainless steel
	TT8010	P30 - P50					●		For a wide range of threading on low carbon steel & low carbon alloy steel
		M30 - M50					●		For a wide range of threading on stainless steel & exotic materials
		S30 - S50					●		Toughest grade in threading product line
	TT8020	P30 - P50	●	●	●	●			Interrupted and rough machining of steel
		M30 - M50	●	●	●	●			Interrupted and rough machining of stainless steel
		S30 - S50	●	●	●	●			Low speed and interrupted machining of heat-resistant alloy
	TT8080	P30 - P50	●	●					Interrupted and rough machining of steel
		M30 - M50	●	●					Interrupted and rough machining of stainless steel
		S30 - S50	●	●					Low speed and interrupted machining of heat-resistant alloy
	TT9020	P20 - P40	●						For small parts turning on steel
		M20 - M40	●					●	General machining of stainless steel
	TT9030	P20 - P40		●		●	●	●	General machining of steel
		M20 - M40		●		●	●	●	General machining of stainless steel
		S20 - S40		●		●	●	●	General machining of heat-resistant alloy
	TT9080	P20 - P40		●	●	●			General machining of steel
		M20 - M40	●	●	●	●			General machining of stainless steel
		S20 - S40	●	●	●	●			General machining of heat-resistant alloy
Diamond Coated Carbide	TTD610					●		●	Drilling and end milling of composite materials (CFRP and GFRP)
Carbide	K10	K05 - K15	●	●	●	●			General machining of cast iron
		N05 - N15	●	●	●	●			General machining of aluminum alloys and non-ferrous materials
		S05 - S15	●		●	●			General machining of heat-resistant alloy
	P30	P25 - P35	●	●					General machining of steel
	UF10	P25 - P35						●	General machining of steel
		M25 - M35						●	General machining of stainless steel
		N25 - N35		●		●		●	General machining of aluminum alloys and non-ferrous materials
PVD Cermet	PV3010	P05 - P20	●		●				High speed finish machining of carbon steel, alloy steel, mild steel, mold steel and free-cutting steel
		M05 - M20	●		●				High speed finishing of stainless steel
		K05 - K20	●		●				High speed finishing of cast iron
	PV3030	P05 - P20	●		●				High speed finish machining of carbon steel, alloy steel, mild steel, mold steel and free-cutting steel
		M05 - M20	●		●				High speed finish and medium machining of austenite and maltensite stainless steel
		K05 - K20	●		●				High speed finish & medium machining of gray cast iron, nodular and ductile cast iron
Cermet	CT3000	P10 - P20	●		●				Finish machining of carbon steel, alloy steel, mild steel and mold steel. Good surface roughness
		M10 - M20	●		●				Finish machining of stainless steel. Good surface roughness
		K10 - K20	●		●				Finish machining of cast iron
	CT7000	P15 - P25		●					Finish milling of steel
		M15 - M25		●					Finish milling of stainless steel
Coated Ceramic	AB2010 PVD	H01 - H10	●						High speed turning of hardened steel. Shiny yellow color
	SC10 CVD	K20 - K30	●						Roughing of cast iron with and without coolant
Ceramic	AW120	K01 - K10	●						High speed continuous turning of cast iron. Excellent wear resistance
	AB20	H01 - H10	●						Turning of high hardness steel and cast iron (HRC 50-65)
	AB30	K05 - K15	●		●				Continuous to light interrupted turning of cast iron without coolant
		H05 - H15	●		●				High speed turning of hardened steel (HRC 40-50)
	AS500	K10 - K20	●		●				Roughing of cast iron with and without coolant. SiAlON grade
	AS10	K20 - K30	●	●	●				Turning and milling of cast iron
	AS20	S05 - S20	●	●					High speed turning and milling of superalloy
	TC3020	S10 - S25	●	●					Turning and milling of superalloy. SiAlON grade
	TC3030	S15 - S30	●	●					Turning and milling of superalloy. SiAlON grade
	TC430	S01 - S15	●	●	●				High speed turning and milling of superalloy. Whisker ceramics
CBN	TB610	H01 - H10	●		●				Continuous turning of case hardened steel
	TB650	H10 - H20	●		●				General turning of case hardened steel
	TB670	H15 - H25	●		●				General turning of hardened steel
	TB730	K15 - K25	●		●				High speed precision turning of cast iron in continuous cut and interrupted cut
		S05 - S20	●		●				Severe interrupted turning of heat-resistant alloy
	KB90	K15 - K25	●	●	●				High speed machining of cast iron
		S05 - S20	●	●	●				Machining of heat-resistant alloy
	KB90A	K10 - K25	●						High speed precision turning of cast iron Solid CBN
PCD	TD810	N01 - N10	●	●	●			●	Multi modal composition for high speed of non-ferrous materials
	TD830	N01 - N30	●	●	●			●	Machining of non-ferrous materials, ceramic green body, titanium and composite plastics (CFRP and GFRP)
	KP500	N05 - N15	●	●	●			●	High Si-Al alloy, hardmetal, metal composite & ceramic composite materials
	KP300	N10 - N20	●	●	●			●	General turning and milling of non-ferrous materials
	KP100	N20 - N30	●	●	●			●	Non-ferrous metals. Good surface finishes

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