

# TaeguTec Grade Chart



## Based on Applications (Coated)

Application	Grade	ISO Range	Harder ↑ ↓ Tougher
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	
	TT9235	M25-M40 S25-S40	
TT8020	P30-P50 M30-M50 S30-S50		
Milling	TT2510	P05-P25 H05-H25	↑ Harder ↓ Tougher
	TT6800	P10-P25 K10-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	
	TT8020	S30-S50	
Parting & Grooving	TT6300	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	
	TT8020	S30-S50	
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	
Threading	TT7010	P05-P25 K05-K25	↑ Harder ↓ Tougher
	TT9030	P20-P40 M20-M40 S20-S40	
	TT8010	P30-P50 M30-M50 S30-S50	
Solid Carbide End Mill & FINEBALL	TT5505	P05-P25 H05-H25	↑ Harder ↓ Tougher
	TT5515	P10-P30 M10-M30 K10-K30 S10-S30 H10-H30	
	TT5525	P20-P40 M20-M40 S20-S40	
	TT9020	M20-M40	
	TT9020	M20-M40	

## Based on Grades

Grade	ISO Range	Application						Workpiece Material and Application
		Turning	Milling	Parting & Grooving	Holemaking	Threading	End Milling / FINEBALL	
TT5100	P20 - P35 M20 - M35							Medium turning of low carbon steel and alloy steel Medium & low speed machining of stainless steel
TT6300	K01-K15							High speed turning & grooving of cast iron
TT6800	K10 - K25 P10 - P25							High speed milling of gray and ductile cast iron High speed milling of steel
TT7005	BLACK-RUSH K01 - K15							High speed continuous turning for gray and ductile cast iron
TT7015	BLACK-RUSH 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
TT7800	P30 - P45 M30 - M45							Rough milling of carbon & alloy steel 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 S05 - S20							High speed turning of stainless steel
TT9225	M15 - M30 S15 - S30							High & medium speed machining of heat-resistant alloy General turning of stainless steel
TT9235	M25 - M40 S25 - S40							Medium speed machining of heat-resistant alloy Low speed and interrupted turning of stainless steel
TT9300	P10 - P25							Low speed machining of heat-resistant alloy High speed drilling of carbon & alloy steel
TT2510	P05 - P25 H05 - H25							High speed milling of steel High speed milling of hardened steel
TT5080	M05 - M25 S05 - S25							High speed finish turning of stainless steel High speed turning of heat-resistant alloy
TT5505	P05 - P25 H05 - H25							High speed milling of steel High speed milling of hardened steel
TT5515	P10 - P30 M10 - M30 K10 - K30 S10 - S30 H10 - H30							High speed milling of steel. Excellent wear and heat resistance General milling of stainless steel General milling of cast iron General milling of heat-resistant alloy High speed milling of hardened steel. Excellent wear resistance
TT5525	P20 - P40 M20 - M40 S20 - S40							High speed milling of steel High speed milling of stainless steel High speed milling of heat-resistant alloy
TT6080	K05 - K25 H05 - H25							General machining for gray and ductile cast iron Finish and medium machining of hardened steel
TT7010	P05 - P25 K05 - K25							Threading of steel Threading of cast iron
TT7080	P05 - P25 K05 - K25							General milling of steel Heavy interrupted cutting of cast iron
TT7220	P25 - P45 M25 - M45							Parting, grooving, turn grooving & drilling of steel Parting, grooving, turn grooving & drilling of stainless steel
TT8010	P30 - P50 M30 - M50 S30 - S50							For a wide range of threading on low carbon steel & low carbon alloy steel For a wide range of threading on stainless steel & exotic materials Toughest grade in threading product line
TT8020	P30 - P50 M30 - M50 S30 - S50							Interrupted and rough machining of steel Interrupted and rough machining of stainless steel Low speed and interrupted machining of heat-resistant alloy
TT8080	P30 - P50 M30 - M50 S30 - S50							Interrupted and rough machining of steel Interrupted and rough machining of stainless steel Low speed and interrupted machining of heat-resistant alloy
TT9020	P20 - P40 M20 - M40							For small parts turning on steel General machining of stainless steel
TT9030	P20 - P40 M20 - M40 S20 - S40							General machining of steel General machining of stainless steel General machining of heat-resistant alloy General machining of steel
TT9080	P20 - P40 M20 - M40 S20 - S40							General machining of stainless steel General machining of heat-resistant alloy
K10	K05 - K15 N05 - N15 S05 - S15							General machining of cast iron General machining of aluminum alloys and non-ferrous materials General machining of heat-resistant alloy
P30	P25 - P35 P25 - P35							General machining of steel General machining of steel
UF10	M25 - M35 N25 - N35							General machining of stainless steel General machining of aluminum alloys and non-ferrous materials
PV3010	P05 - P20 M05 - M20 K05 - K20							High speed finish machining of carbon steel, alloy steel, mild steel, mold steel and free-cutting steel High speed finishing of stainless steel High speed finishing of cast iron
PV3030	P05 - P20 M05 - M20 K05 - K20							High speed finish machining of carbon steel, alloy steel, mild steel, mold steel and free-cutting steel High speed finish and medium machining of austenite and martensite stainless steel High speed finish & medium machining of gray cast iron, nodular and ductile cast iron
CT3000	P10 - P20 M10 - M20 K10 - K20							Finish machining of carbon steel, alloy steel, mild steel and mold steel. Good surface roughness Finish machining of stainless steel. Good surface roughness Finish machining of cast iron
CT7000	P15 - P25 M15 - M25							Finish milling of steel Finish milling of stainless steel
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
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 H05 - H15							Continuous to light interrupted turning of cast iron without coolant High speed turning of hardened steel (HRC 40-50)
AS500	K10 - K20							Roughing of cast iron with and without coolant. SIAION grade
AS10	K20 - K30							Turning and milling of cast iron
AS20	S05 - S20							High speed turning and milling of superalloy
TC430	S01 - S15							High speed turning and milling of superalloy. Whisker ceramics
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 S05 - S20							High speed precision turning of cast iron in continuous cut and interrupted cut Severe interrupted turning of heat-resistant alloy
KB90	K15 - K25 S05 - S20							High speed machining of cast iron Machining of heat-resistant alloy
KB90A	K10 - K25							High speed precision turning of cast iron Solid CBN
TD810	N01 - N10							Multi modal composition for high speed of non-ferrous materials
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

### 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.



It Just Gets Better



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