



Grade Comparison Chart

Coated Carbide

Application	Classification	Grade	Sumitomo Electric	Mitsubishi	Tungaloy	Kyocera	Hitachi	Sandvik	Kennametal	Dijet	Valenite	SECO Tools	WALTER	ISCAR	
A Grades	P Steel	P05	AC810P	UE6105	T9105	CA510 CA5505	HG8010	GC4205	KCP05 KC9105	JC110V	VP5515 VP1510	TP0500	WPP05	IC8005 IC428	
		P10	AC810P AC820P	UE6110	T9115	CA515 CA5515	HG8010	GC4315 GC4215	KCP10 KC9110	JC110V JC215V	SV310 SV315 SV515	TP1500	WPP10S WPP10	IC8150 IC9015	
		P20	AC820P	MC6025 UE6020	T9125	CA525 CA5525	IP2000 HG8025 GM25	GC4325 GC4225	KCP25 KC9125	JC215V	SV315 SV325 VP5525	TP2500	WPP20S WPP20	IC8250 IC9015	
		P30	AC830P AC630M	UE6035 VP15TF	T9135	CA530 CA5535	IP3000 GM8035	GC4235	KCP30 KC9140	JC215V JC325V	VP5535 SV325 SV230	TP3500	WPP30S WPP30	IC8350 IC8025	
	P40	AC830P AC630M	UE6035 UH6400	T9135	PR660	IP3000 GM8035	GC4235	KC9140	JC325V JC450V	SV235 V1N VP5535	TP3500	WTN53	IC8350 IC8025		
	M Stainless Steel	S Exotic Alloy	M10 S10	AC610M AC510U	MC7015 US7020 MP9005 US905 VP05RT VP10RT	T9115 AH110 AH905	CA6515 PR915 PR1025 PR1215 PR1225	IP050S IP100S	GC2015 GC1105 GC1115	KCM15 KC5510 KCU10	JC605X JC5003 JC110V	SV310 SV315 VC929	TP1500 TS2000	WSM10	IC807 IC8025 IC907
			M20 S20	AC6030M AC610M AC520U	MC7025 US7020 MP9015 VP20MF UP20M	T6120 T6020 T9125 AH630 AH120 AH725	CA6525 PR915 PR930 PR1025 PR1125 PR1215 PR1225	IP100S HG8025	GC2025 GC1125	KCM25 KC5525 KCU25 KC5020	JC110V JC5015 JC8015 JC525X	VPS525 VC901 SV230	TP2500 TM2000 TS2500	WSM20 WMP20S	IC808 IC8080 IC908
			M30	AC6030M AC6040M AC630M AC830P AC530U	MC7025 MP7035 US735 VP15TF VP20MF	AH725 T6130 T6030 AH630 AH645	CA6525 PR1125	GM8035 GX30	GC2035	KCM35 KC9240	JC5015 JC8015 JC525X	VC901 V1N	TP3500 TM4000	WSM30	IC8080 IC830
			M40	AC6040M AC530U	MP7035 US735 VP15TF	AH645	PR1125	GX30	GC235			V1N	TM4000		IC830 IC928
	K Cast Iron	K05	AC405K	MC5005 UC5105 UC5115	T5105 T5115	CA4505 CA4010	HG3305 HX3305	GC3205	KCK05	JC105V JC050W	SV405 SV510	TK1000 TK1001	WAK10 WKK10S	IC5005	
		K10	AC415K	MC5005 MC5015 UC5105 UC5115	T5115 T5125	CA4505 CA4515 CA4115	HX3305 HG3305 HG3315 HX3315	GC3210	KCK15	JC105V	SV410 SV515	TK1000 TK1001	WAK10 WAK20 WKK10S WKK20S	IC5010 IC5100	
		K20	AC420K	MC5015 UC5115 VP15TF UE6110	T5125 T9125	CA4515 CA4120 CA4115	HX3315 HG3315 HG8010	GC3215	KCK20	JC215V	SV415 SV515	TK2000 TK2001	WAK20 WAK30 WKK20S	IC8150	
	Milling	P Steel	P10	ACP100	FH7020 F7030	T3130 T3030		JP4005 JP4020	GC4220 GC4230	KC715M KC930M KC935M	JC8003 JC730	V1N	T250M T350M MP1500 MP2500	WKP25 WKP25S WPP20 WKP35S	IC4100 IC520M IC4050 DT1750
			P20	ACP200	VP15TF VP20RT	AH9030 AH120 AH725	PR1525 PR1225 PR830	JS4045 GX2140	GC1010 GC1025 GC2040 GC4240	KTPK20 KCPM20	JC6235 JC5040 JC8015 JC5015 JC5118	VC935	MP3000 F25M F30M	WSM20	IC808 IC810 IC380
			P30	ACP300	VP30RT	AH3035 AH130 AH140 SH730	PR1525 PR1230	JS4060 JX1045 JX1060 CY150 CY250	GC1030 GC2030	KCPK30 KCMP30 KC725 KC730 KC735	JC5040 JC8050		MM4500 F40M	WSM30 WSM35 WSP45S WSP45	IC830 IC928 IC330
		M Stainless Steel	M10	ACM100 ACK300			PR1025 PR1225	JX1020 CY9020 JP4020	GC1025 GC1030	KC522M					
M20			ACM200	F7030 VP15TF VP20RT	GH330 AH330 AH120 AH130	PR1525 PR1025 PR1225	JX1015 CY150 CY15	GC2030	KC730M KC525M	JC5015 JC5030 JC5040		F25M F30M	WSM35 WXM35	IC908 IC928	
M30			ACM300	F7030 VP30RT MP7030	AH130 AH140	CA6535 PR1535	JX1045 JX1060 GX2160	GC2040	KC994M KC725M	JC5015 JC5030 JC5040	VC935	F30M F40M	WSM35 WXM35	IC328 IC330 IC830	
K Cast Iron		K20	ACK200	MC5020 F5010 F5020	T1115	PR905	JP4020	GC3220 GC3020 GC3040 K15W K20W K20W	KCK15 KCK20 KC915M KC930M KC935M	JV608X JC800 JC605W JC610 JC8003	VN5	MK1500 MK3000 T150M	WAK15 WKK25 WKP25S	IC5100 DT1750	
	K30	ACK300	VP15TF VP20RT	AH725 AH120 AH110 AH330 GH110 GH130	PR1510 PR1210	GX2140 JS4045 JX1045 CY150 CY250	GC1010 GC1020 GC1025 GC1030	KTPK20 KCPK30 KC510M KC520M KC525M	JC6235 JC5003 JC5015 JC5080 JC8015	VC928	MK2050 MK1000 MH1000	WKP35S WPP20	IC830 IC810 IC908 IC910 IC928 IC950		





Grade Comparison Chart

■ Cermet




Application	Classification	Grade	Sumitomo Electric	Mitsubishi	Tungaloy	Kyocera	Hitachi	Sandvik	Kennametal	Dijet	Valenite	SECO Tools	WALTER	ISCAR
Turning		P10	T1000A T110A	AP25N* NX2525	GT720* NS520	TN30 PV30* TN6010 PV7010*	CZ25*	CT5015	KT125 HTX KT1120	LN10 CX50	VC605			IC20N IC520N
		P20	T1500A T1500Z* T2000Z*	AP25N* NX2525 NX3035	NS530 GT530* NS730 GT730* NS9530 GT9530*	TN60 TN6020 PV60* PV7020* PV7025*	CH550	GC1525*	KT6215 KT315* KT175 KT5020*	CX50 CX75	VC610	CM CMP C15M TP1020		IC30N IC530N
		P30	T3000Z*	NX3035 MP3025*		PV7025* PV90*				CX90 CX99				
Milling		K10	T1000A T110A	AP25N* NX2525	GT720* NS520	TN30 PV30* TN6010 PV7005* PV7010*		CT5015	KT125 HTX	LN10 CX50	VC605			
			T250A T4500A	NX4545 VP45N*	NS540 NS740	TC60M TN100M	MZ1000* MZ2000* MZ3000*	CT530	KT530M*	CX90	VC630	C15M		IC30N

★ Coated Cermet Inserts

■ Carbide

Classification	Grade	Sumitomo Electric	Mitsubishi	Tungaloy	Kyocera	Hitachi	Sandvik	Kennametal	Dijet	SECO Tools	ISCAR	
	P10	ST10P				WS10	S1P		SRT			
	P20	ST20E	UTi20T	UX30		EX35	SMA	K125M	SR20		IC07 IC50M	
	P30	A30 A30N	UTi20T	UX30	PW30	EX40	SM30		DX30		IC54 IC28	
	P40	ST40E				EX45	S6		SR30		IC54 IC28	
	M10	U10E EH510				WA10B	H10A	KU10,K313 K68,KYSM10	UMN	890	IC07,IC20 IC08	
	M20	U2 EH520	UTi20T	UX30			H13A	K313 K68	DX25 UMS	HX 883	IC07,IC20 IC08	
	M30	A30 A30N	UTi20T	UX30			H10F SM30		UMS UM40		IC28	
	K01	H2 H1	HTi05T			WH01 WH05		KU10,K313 K68,K115M	KG03		IB50,IB85 IS8	
	K10	H1 EH10 EH510	HTi10	TH10	KW10 GW15	WH10	H13A	KU10,K313 K68,K115M K110M KY3500	KG10 KT9 CR1	890	IB50,IB85 IB55,IB90 IC20,IS8	
	K20	G10E EH20 EH520	UTi20T	UX30	GW25	WH20	H13A	KMF KY3500 KYHS10	KT9 CR1 KG20	890 883 HX	IC20 IS8	
	K30	G10E	UTi20T			WH30		KY3500	KG30	883		
		EH510 EH520	RT9005 RT9010 MT9015 TF15	TH10 KS20	SW05,SW10 SW25,KW10 GW15	WH10	H10A H10F H13A	KU10,K313 K68,KMF K110M,KYHS10 K1025(KMF)	KG10 KG20	HX H25	ID5,IB85 IC20,IC07 IC08,IC28	
	Fine-grained Carbide	F0	SF10,MF07 MF10	F,MD1508 MD08F		NM08			FB05,FB10 FZ05			IC07
		F1,AFU XF1	HTi10 MF20	M,MD10 MD05F,MD07F	FW30	NM15	6UF,8UF PN90,H6FF		FZ10,FB15 FZ15	890		IC07
		AF0,AF1 SF2	TF15 MF30	EM10,MD20 MD15		BRM20 EF20N	12UF		FB20,FZ15 FB15	890 883		IC08
		A1		UM		NM25	N6F H10F		FZ20 FB20	883		IC08

■ Ceramic

Classification	Sumitomo Electric	Tungaloy	Kyocera	Sandvik	Kennametal	Dijet	Nippon Tungsten	NTK
	NB100C	WG300 LX11	A66N A65 KT66	GC6050 CC650 CC670	KY1615 KY4300	CA100	NPC-A2 WIN	HC4,HC7 ZC7,WA1
	WX120	WG300	CF1	CC6060 CC6065 CC670	KY4300 KY1540	CA200	WHISKAL	WA1 SX9
	NB90S NB90M	LX11,LX21 CXC73,FX105 CX710	A65,A66N KA30,KS500 KS6000,KT66	CC620,CC650 CC6090 GC1690	KY1615,KY1310 KY1320,KY3500 KY4300	CA010 CS100	NAICON-NXA NAICON-NX	HC1,HW2,HC2,HC6 HC7,WA1,SX1,SX2 SP2,SX9,SX8

(Note) The data on pages A4 and A5 was collected from the various published catalogues therefore the information may not be updated.





A

Grades

Grade Comparison Chart

A
Grades

CBN

Classification	Grade	Sumitomo Electric	Mitsubishi	Tungaloy	Kyocera	Hitachi	Sandvik	Kennametal	Dijet	SECO Tools
	K01	BNC500* BN7000 BN500	MB710	BX930 BX870 BX910	KBN60M		CB7525 CB7925	KB1340	JBN795	
	K10	BN7000 BN500	MB710 MB730	BX950	KBN900	BH200	CB7525 CB7925		JBN330	CBN200,CBN300 CBN300P,CBN400C
	K20	BN7000 BNS800	MBS140	BXC90 BX90S	KBN900	BH250				CBN200,CBN300 CBN300P,CBN400C
	K30	BNS800		BXC90 BX90S				KB5630		CBN500
	N01	BN700 BN7000								
	S01	BN7000	MB730	BX470 BX480 BX950	KBN65M KBN70M			KB5630 KB1340		
	H01	BNC2010 BNC2020 BNC100 BN1000 BN2000 BNX10	MBC010 MB810	BXM10 BX310	KBN05M PT600M	BH100		KB5610		CBN10 CBN100 CBN060K
	H10	BNC2010 BNC2020 BNC160 BNC200 BN2000	MBC020 BC8020 MB820	BXM20 BX330	KBN25M	BH150	CB7015	KB5610 KB5625	JBN300	CBN10,CBN100 CBN150,CBN060K CBN160C
	H20	BNC2020 BNC200 BNX20	MBC020 BC8020 MB825	BXC50 BX360	KBN35M KBN900	BH250	CB7025 CB20	KB5625 KB5630	JBN245	CBN150 CBN160C
	H30	BNC300 BN350 BNX25	MB835 BC8020	BX380			CB7525	KB5630		

* For cutting ductile cast iron

Polycrystalline Diamond





Classification	Grade	Sumitomo Electric	Mitsubishi	Tungaloy	Kyocera	Sandvik	Kennametal	Dijet	SECO Tools
	N01	DA1000 DA150	MD205	DX180 DX160	KPD001	CD05 CD10	KD1400	JDA30 JDA735	
	N10	DA1000 DA150	MD205 MD220	DX140	KPD001 KPD010 KPD230	CD1810	KD1400 KD1425		PCD05 PCD10
	N20	DA1000	MD220 MD230	DX120	KPD230		KD1400 KD1425	JDA10 JDA715	PCD05 PCD20
	N30	DA1000	MD230	DX110			KD1400		PCD05 PCD30 PCD30M

(Note) The above data was collected from the various published catalogues therefore the information may not be updated.

Grade Comparison Chart


A
Grades

■ CBN

Classification	Grade	Sumitomo Electric	Mitsubishi	Tungaloy	Kyocera	Hitachi	Sandvik	Kennametal	Dijet	SECO Tools
	K01	BNC500* BN7000 BN500	MB710	BX930 BX870 BX910	KBN60M		CB7525 CB7925	KB1340	JBN795	
	K10	BN7000 BN500	MB710 MB730	BX950	KBN900	BH200	CB7525 CB7925		JBN330	CBN200,CBN300 CBN300P,CBN400C
	K20	BN7000 BNS800	MBS140	BXC90 BX90S	KBN900	BH250				CBN200,CBN300 CBN300P,CBN400C
	K30	BNS800		BXC90 BX90S				KB5630		CBN500
	N01	BN700 BN7000								
	S01	BN7000	MB730	BX470 BX480 BX950	KBN65M KBN70M			KB5630 KB1340		
	H01	BNC2010 BNC2020 BNC100 BN1000 BN2000 BNX10	MBC010 MB810	BXM10 BX310	KBN05M PT600M	BH100		KB5610		CBN10 CBN100 CBN060K
	H10	BNC2010 BNC2020 BNC160 BNC200 BN2000	MBC020 BC8020 MB820	BXM20 BX330	KBN25M	BH150	CB7015	KB5610 KB5625	JBN300	CBN10,CBN100 CBN150,CBN060K CBN160C
	H20	BNC2020 BNC200 BNX20	MBC020 BC8020 MB825	BXC50 BX360	KBN35M KBN900	BH250	CB7025 CB20	KB5625 KB5630	JBN245	CBN150 CBN160C
	H30	BNC300 BN350 BNX25	MB835 BC8020	BX380			CB7525	KB5630		

* For cutting ductile cast iron

■ Polycrystalline Diamond

Classification	Grade	Sumitomo Electric	Mitsubishi	Tungaloy	Kyocera	Sandvik	Kennametal	Dijet	SECO Tools
	N01	DA1000 DA150	MD205	DX180 DX160	KPD001	CD05 CD10	KD1400	JDA30 JDA735	
	N10	DA1000 DA150	MD205 MD220	DX140	KPD001 KPD010 KPD230	CD1810	KD1400 KD1425		PCD05 PCD10
	N20	DA1000	MD220 MD230	DX120	KPD230		KD1400 KD1425	JDA10 JDA715	PCD05 PCD20
	N30	DA1000	MD230	DX110			KD1400		PCD05 PCD30 PCD30M

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