

Carbide Turning Inserts Grade Comparison - CVD

鎢鋼車刀片材質比較表 - CVD

ISO Code	WINSTAR 萬事達	Mitsubishi 三菱	Hitachi 日立	Sumitomo 住友	Kyocera 京瓷	Tungaloy 泰珂洛	Korloy 克勞伊	TaeguTec 特固克
P Steel	P10	CC7015	MC6015 UE6105 UE6110 UE6005 UE6010 UE6020	GM10 GM20 GM8015 HG8010	AC8020P AC8015P AC810P	CA510 CA515 CA5505 CA5515	T9005 T9105 T9015 T9115 T9215	NC3215 TT8105B
	P20	CC7025	MC6025 UC6010 UE6110 UE6020	GM20 GM8020 HG8025	AC8020P AC8025P AC820P	CA025P CA525 CA5515 CA5525 CR9025	T9015 T9115 T9025 T9125 T9225	NC3225 TT5100 TT8115B TT8125B
	P30	CC7035	MC6025 UE6020 MC6035 UE6035 UH6400	GM25 GM8035 HG8025	AC8035P AC830P AC6030M AC630M	CA025P CA525 CA5525 CA530 CA5535 CR9025	T9125 T9035 T9135 T3130	NC3120 NC3030 NC5330 TT5100 TT7100 TT8125B
	P40	CC7035	MC6035 UE6035 UH6400	GX30	AC8035P AC830P AC6030M AC630M	CA530 CA5535	T9035 T3130	TT5100 TT7100 TT8135B
M Stainless Steel	M10 S10	CC7015	MC7015 US7020	GM10 HS9105	AC6020M AC610M	CA6515	T9015 T9115	NC9115 TT9215
	M20 S20	CC7025 CC7035	US7020 MC7025	GM8020 HG8025 HS9115	AC6020M AC6030M AC610M AC630M	CA6525	T6020 T6120 T9115 T9125	NC9115 NC9125 TT5100 TT9215
	M30	CC7035	MC7025 US735	GM25 GM8035	AC6030M AC630M AC8035P AC830P		T6030 T6130 T9125	NC9125 NC9135 TT5100 TT9235
	M40	CC7035	US735	GX30	AC6030M AC630M			NC9135 TT5100 TT9235
K Cast Iron	K01	CC7015	MC5005 UC5105 UC5015	HG3305 HG3315 HX3505 HX3515	AC405K AC410K AC300G AC4010K	CA310 CA4505 CA5505	T5105 T5010	TT7005
	K10	CC7015	UC5015 UC5105 UC5115 UE6010 MC5015	GM8015 HX3515 HG8010 HG3315	AC4010K AC4015K AC405K AC415K	CA310 CA315 CA4505 CA4515 CA5505	T515 T5105 T5115 T5010	NC6310 TT7005 TT7015
	K20	CC7015	MC5015 MY5015 UE6010 UC5115 UE6110	GM8020 HG8025	AC4015K AC415K AC420K AC425K AC8025P	CA315 CA320 CA4515	T515 T5115 T5125 T5020	NC6315 TT7015 TT7025
	K30		UE6110	GM25		CA320	T5125 T9125	NC5330 TT7025

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P Steel	P10	CC7015	GC4205 GC4015 GC3115 GC4215 GC4315	IC8150 IC9150 IC9250	KCK05 KCP10B KCP10 KC9010 KC9110	TP1501 TP1000 TP1500 TP100	WPP01 WPP05
	P20	CC7025	GC4025 GC4215 GC4220 GC4225 GC4325	IC8250 IC9125 IC9250 IC9350	KCP25B KCP25 KC9125 KC9225 KC9325	TP2501 TP2000 TP2500 TP200	WPP10S WPP20S
	P30	CC7035	GC4225 GC4230 GC4235 GC2135 GC4335	IC635 IC8350 IC9350	KCP30B KCP30 KC9040 KC9140	TP2501 TP3501 TP2500 TP2000 TP3500 TP200	WPP30S
	P40	CC7035	GC4035 GC4235 GC4240 GC4335	IC635	KCP40B KCP40 KC9140 KC9240	TP40	
M Stainless Steel	M10 S10	CC7015	GC2015 GC2220	IC8250 IC9250 IC9350 IC6015	KCM15B KCM15 KC9010 KC9110 KC9210	TP1500 TP100	WAM20
	M20 S20	CC7025 CC7035	GC1515 GC2015 GC2025 GC2220	IC8350 IC9250 IC9350 IC6025	KCM25B KCM25 KC9025 KC9125 KC9225	TM2000 TP200	
	M30	CC7035	GC2040 GC235	IC8350 IC9350 IC4050	KCM35B KCM35 KC9240	TM4000 TP3501 TP300	
	M40	CC7035		IC635	KC9045 KC9245	TP40	
K Cast Iron	K01	CC7015	GC3205 GC3210	IC5005 IC428 IC9007 IC9150	KCPK05 KC9315 KCK05B KCK05	TK0501 TK1000 TK1001	WAK10
	K10	CC7015	GC3205 GC3210 GC3215 GC3115	IC5010 IC418 IC428 IC9015 IC9007	KC9110 KC9120 KC9315 KCK15B KCK15	TK1000 TK2000 TK2001 MK1500	WAK20
	K20	CC7015	GC4225 GC3215 GC3220 GC3225	IC418 IC9015	KC9125 KC9320 KC9325 KCK20B KCK20	TK2000 TX150 TP200	WAK30
	K30		GC3040 GC4335		KCP25B KC9320	TP2500 TP200	

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Carbide Turning Inserts Grade Comparison - PVD

鎢鋼車刀片材質比較表 - PVD

ISO Code	WINSTAR 萬事達	Mitsubishi 三菱	Hitachi 日立	Sumitomo 住友	Kyocera 京瓷	Tungaloy 泰珂洛	Korloy 克勞伊	TaeguTec 特固克
P Steel	P10	CP6015	MS6015 VP10MF	CY15 CY150 IP2000	AC1030U ACZ150 AC5005S AC5015S AC5025S AC520U	PR1705 PR930 PR1025 PR1115 PR1215 PR1225 PR1725	AH710	TT4410
	P20	CP6015 CP6025	MS6015 VP10RT VP15TF VP20MF UP20M VP20RT	CY150 IP2000	AC1030U AC5025S AC520U AC530U	PR930 PR1025 PR1115 PR1215 PR1225 PR1625 PR1725	AH7025 AH710 AH725 AH730 SH725 SH730	TT4410 TT4430 TT9020 TT9080
	P30	CP6025	VP10RT VP15TF VP20MF UP20M	CY250 CY9020 HC844 IP3000	AC1030U AC530U	PR1025 PR1225 PR1535	GH330 AH120 AH740 AH9030	PC5300 TT4410 TT4430 TT8020 TT8080 TT9020 TT9080
	P40	CP6025		CY250 HC844	AC1030U	PR1535	AH140 AH740 J740	PC5300 PC5400 TT4430 TT8020 TT8080 TT9020 TT9080
M Stainless Steel	M10	CP6015	VP10MF VP10RT	IP050S JP9105	AC5005S AC5015S AC5025S AC510U AC520U ACZ150	PR1025 PR1215 PR1225	AH710	PC8110 TT4410 TT5080
	M20	CP4025 CP6025	VP10RT VP15TF VP20MF UP20M VP20RT	IP100S GX30 JP9115	AC5015S AC5025S AC1030U AC520U	PR930 PR1025 PR1125 PR1215 PR1725 PR1225 PR1515	AH630 AH725 AH730 GH330 GH730 SH75 SH730	PC8115 TT4410 TT4430 TT5080 TT9020 TT9080
	M30	CP4025 CP6025	VP15TF VP20MF UP20M MP7035	CY250 CY9020	AC5025S AC6040M AC1030U AC520U AC530U	PR1125 PR1535	AH6030 AH120 AH725	PC5300 TT4410 TT4430 TT5080 TT8020 TT8080 TT9020 TT9080
	M40	CP4025 CP6025	MP7035		AC6040M AC1030U AC530U	PR1535	J740 AH140 AH645	PC9030 PC5400 TT4430 TT8020 TT8080 TT9020 TT9080
K Cast Iron	K01						AH110	
	K10	CP6015	VP05RT	CY100H CY10H	AC1030U AC510U ACZ150 AC5015S	PR905 PR1215	GH110 AH110	PC8110
	K20	CP6025	VP10RT VP15TF VP20RT	IP2000 CY9020	AC1030U AC510U ACZ150 AC5015S AC5025S	PR905 PR1215	AH120 AH725	PC8110
	K30	CP6025	VP15TF VP20RT		AC1030U AC530U			PC5300 PC5400
S Superalloys	S01		MP9005 VP05RT			PR005S	AH8005 AH905	PC8105
	S10	CP4025 CP6015 CP6025	MP9005 MP9015 VP10RT	JP9105	AC5005S AC5015S AC5025S AC510U AC520U ACZ150	PR005S PR015S	AH8015 AH905 SH730 AH110	PC8110 TT3010 TT3020 TT4410 TT5080
	S20	CP4025 CP6025	MP9015 MT9015 VP20RT MP9025	JP9115	AC5015S AC5025S AC1030U AC520U	PR015S PR1535	AH8015 AH120 AH725	PC8115 TT3010 TT3020 TT4410 TT4430 TT5080
	S30	CP4025 CP6025	MP9025		AC5025S AC6040M AC1030U AC520U AC530U	PR1535	AH725	PC5300 PC5400 TT8020 TT8080 TT3010 TT3020 TT4410 TT4430 TT5080

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Carbide Turning Inserts Grade Comparison - PVD

鎢鋼車刀片材質比較表 - PVD

ISO Code		WINSTAR 萬事達	Sandvik 山特維克	Iscar 伊斯卡	Kennametal 肯納	SECO 山高	Walter 瓦爾特
P Steel	P10	CP6015	GC1025	IC507 IC807 IC907	KC5010 KC5510 KU10T	CP200	
	P20	CP6015 CP6025	GC1020 GC1025 GC4125 GC1125	IC507 IC907 IC908	KC5025 KC5525 KC7215 KC7315 KU25T	CP250	
	P30	CP6025	GC1125 GC1145 GC1115 GC1105	IC328 IC928 IC3028	KC7015 KC7020 KC7235 KU25T	CP500	
	P40	CP6025	GC1145 GC2145	IC328 IC3028	KC7030 KC7040 KC7140	CP600	
M Stainless Steel	M10	CP6015	GC1005 GC1025 GC1105 GC15	IC507 IC520 IC807 IC907	KC5010 KC5510 KC6005 KCU10	TS2000 CP200 CP250	WSM20
	M20	CP4025 CP6025	H5D6 GC1025 GC1115 GC4125 GC1125 GC30	IC308 IC507 IC907 IC908 IC3028	KC5025 KC5525 KC7020 KC7025 KCU25	TTP2050 TS2500 CP200 CP250 CP500	WSM30
	M30	CP4025 CP6025	GC1020 GC2035 GC2030	IC908 IC1008 IC1028 IC3028	KC7030 KC7225	CP500	
	M40	CP4025 CP6025	GC2145 GC1145	IC228 IC928 IC328		CP600	
K Cast Iron	K01			IC910	KC5515		
	K10	CP6015	GC1010	IC807 IC910 IC507 IC908	KC5010 KC7210	TS2000 CP200	
	K20	CP6025	GC1020 GC1120	IC508 IC908	KC5025 KC5525 KC7015 KC7215 KC7315	TS2500 CP200 CP250	
	K30	CP6025	GC1030	IC508 IC908	KC7225	CP500	
S Superalloys	S01			IC804 IC806			WSM10
	S10	CP4025 CP6015 CP6025	GC1105 GC1005 GC1025	IC807 IC808 IC907 IC908	KC5010 KC5510 KCU10 KCS10	CP200 TS2000	WSM20
	S20	CP4025 CP6025	GC1025 GC1125	IC806 IC808 IC908	KC5025 KC5525 KCU25	CP250 TS2500	WSM30
	S30	CP4025 CP6025	GC1125	IC3028			

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CBN Turning Inserts Grade Comparison

CBN 車刀片材質比較表

ISO Code	WINSTAR 萬事達	Mitsubishi 三菱	NTK	Sumitomo 住友	Kyocera 京瓷	Tungaloy 泰珂洛	Korloy 克勞伊	TaeguTec 特固克	
H Hardened Steel	H01	BN4020 BN20	BC8105 BC8110 MBC010 MB810 MB8110	B5K B52	BNC2010 BNC2115 BN1000 BN2000	KBN05M KBN25M KBN510	BXA10 BXM10 BX310	DNC100 DB1000	TB610
	H10	BN4020 BN20	BC8110 BC8120 MBC020 MB8025 MB8110 MB825	B5K B6K B52 B36	BNC2010 BNC2020 BNC2115 BNC2125 BN2000	KBN05M KBN25M KBN525	BXA10 BXM10 BX330 BX530	DNC100 DNC250 DB1000 DB2000	TB610 TB650 TB2015
	H20	BN4020 BN20	BC8120 BC8020 MBC020 MB8025 MB8120	B36 B40 B6K	BNC2020 BNC2125 BNX20	KBN30M KBN35M KBN900	BXA20 BXM20 BX360	DNC400 DBNX20 DBN250 DBN400	TB650 TB670 TB2015
	H30	-	MB835 MB8130 BC8130	B40	BNC300 BN350 BNX25	KBN30M KBN35M KBN900	BXM20 BXA20 BXC50 BX380	DNC350	TB670 TB7015

ISO Code	WINSTAR 萬事達	Sandvik 山特維克	Iscar 伊斯卡	Kennametal 肯納	SECO 山高	Walter 瓦爾特	
H Hardened Steel	H01	BN4020 BN20	CB7105	IB05H IB50 IB10HC	KB5610	CH0550 CBN10 CBN100 CBN60K	WCB30 WBH10 WBH10C
	H10	BN4020 BN20	CB7015 CB7115 CB20	IB10H IB55 IB25HA	KBH20 KB5610 KB5625	CBN10 CBN150 CBN100 CBN060K CBN160C	WCB50 WBH10
	H20	BN4020 BN20	CB7025 CB7125 CB50	IB20H IB20HC IB25H IB25HC	KBH20 KB5625 KB5630	CH2540 CBN150 CBN160C	WBH20 WBH20C
	H30	-	CB7525 CB7135	IB90	KB5630	CH3515	WBH30 WBK20 WBK30

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Carbide Turning Inserts Chipbreaker Comparison Chart

鎢鋼車刀片斷屑槽比較表

Negative Inserts 負角車刀片

Work Material	Applications	WINSTAR 萬事達	Mitsubishi 三菱	Hitachi 日立	Sumitomo 住友	Kyocera 京瓷	Tungaloy 泰珂洛	TaeguTec 特固克
P Steel	Fine Cutting		FH, FP, FS, FY	FE	FA, FL, FB	GP, XP, XF, VF, VC, SK	TF, NS, ZF	FA
	Finishing	FP	SA, SY, SH	BE, CE, B, BH	LU, FE, SU	PP, XQ, CQ, HQ	MM, TS, TSF	FG, FC
	Finishing to Light	SP, SM	LP	AB, CT	SE, SX	CJ, XS	AS, ZM	
	Medium	MP, ME	MA, MV, MH, MP	AH, AE, AY	GU, GE, UX	HS, PS, PQ, GS, PT, PG	TM, TQ, DM, AM	ML, MP, MC, PC, MT
	Roughing	RK	RP, GH, HAS, MT	RE, AR	MU, ME, MX, MP	HT, GT, PH	TH, S, CH	RT
	Heavy Cutting		HZ, HX, HL, HH, HXD, HR, HV, HCS	TE, UE, H, HX, HE	HG, HP, HU, HW, HF	PX, Standard	THS, TRS, 65, TUS	RX, RH, HT, HD, HY, HZ
M Stainless Steel	Finishing	FP	LM, SH	SE, MP, AB	SU, EF	MQ, GU	SS	EA, SF
	Light to Medium	SP, SM	GM, MS	PV	EX, EG	MS, MU	SF, SA	EM
	Medium	MP, ME	MM	DE	GU		SM	ET
	Roughing	RK	ES, 1M, 2M, HL, RM, GH, HM	AE	HM, EM, MU	TK	S, SH	VF, SU
K Cast Iron	Light Cutting	SP, SM	LK, MA, MK	V, VA	UZ	Standard, C, KQ	CM, CF	MT
	Medium	MP, ME	GK, RK, GH	Y, RE	GZ, ME	ZS, GC, KG, KH	Standard, CH 33	RT
N Non-Ferrous Metal	Finishing	FP		AH	AX	AH	P	
S Superalloys	Finishing	SP, SM	LS, FJ		EF		HRF	
	Medium	MP, ME	MS, MJ	VI	EG, EX	SQ	HMM, SA, HRM	
	Roughing	RK	RS, GJ		MU, EM	SG, SX		
H Hardened Steel	Finishing				GH, FV		HP	
	Light Cutting		BF		LV	HH, HL	HF	
	Carburised Layer Removal		BM		SV	HD	HM	

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Carbide Turning Inserts Chipbreaker Comparison Chart

鎢鋼車刀片 斷屑槽比較表

Negative Inserts 負角車刀片

Work Material	Applications	WINSTAR 萬事達	Sandvik 山特維克	Iscar 伊斯卡	Kennametal 肯納	SECO 山高	Walter 瓦爾特
P Steel	Fine Cutting		QF	SF	FF	FF1, FF2	FP5
	Finishing	FP	LC, XF, MF		FN, CT	MF2	NF3
	Finishing to Light	SP, SM	PF, KF	F3P, TF	LF, 33		MP3, NS6
	Medium	MP, ME	XM, QM, PMC, PM, SM, KM, HM	GN, RF, LF	P, MG, MN, MP1	M3	MU5, MP5, NM4, NM6
	Roughing	RK	PR, XMR, KR	M3P, NR	RP, RN	M5, MR7, R4, R5, M6	RP5, NM9, RP7
	Heavy Cutting		HR, SR, MR	NM, TNM, R3P	RM, MR, RH	R7, MR7, RR9	NR6, NRF, NR8, NRR
M Stainless Steel	Finishing	FP	MF	F3M	FP, FS, LF	MF2	NF4, FM5
	Light to Medium	SP, SM	23	TF, VL	MS	MF1, M1	MM5
	Medium	MP, ME	MM, MMC, SMR	M3M, PP	MP	MF3, M3	NM4, MS3, MU5
	Roughing	RK	MR, MRR	MR, R3M, M4MW	UP	MF4, MF5, M5, MR3, MR4	NR4, RM5, HU5
K Cast Iron	Light Cutting	SP, SM	KF	GN	UN	M4	NM5
	Medium	MP, ME	KM, KR, KRR			MR7	RK5, RK7
N Non-Ferrous Metal	Finishing	FP			MS		
S Superalloys	Finishing	SP, SM	SF, SGF	F3S			NFT
	Medium	MP, ME	SM, SMC	VL		M1	NMT, NMS
	Roughing	RK	SMR			MR3, MR4	NRT, HU5, NRS
H Hardened Steel	Finishing						
	Light Cutting						
	Carburised Layer Removal						

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鎢鋼車刀片斷屑槽比較表

Positive Inserts 正角車刀片

Work Material	Applications	WINSTAR 萬事達	Mitsubishi 三菱	Hitachi 日立	Sumitomo 住友	Kyocera 京瓷	Tungaloy 泰珂洛	TaeguTec 特固克
P Steel	Finishing	FB, FX, FY	FJ, AM, FP, FM, FV, SQ	JQ, MP	FC, FB, LU, FP, FK	CF, GF, VF, P, PF, GP, XP, PP, MQ, DP	01, JRP, JTS, PSF, PF, 23, SS, JSS	FA, FX
	Finishing to Light	SP	SMG, LP, LM		SI, LB	CK, SKS, XQ	JS, CM, PSS	SA
	Light to Medium		SV, MQ	JE	SC, SU, GU, SK, SF	GQ, SK, Standard, HQ, XQ, GK	PS, TSF, TM	FG, PC
	Medium	MP, MK	MP, MM, MK, MV		MU		PM	MT, PMR
M Stainless Steel	Finishing	FB, FX, FY	FM, FV		FC		PSF, PF, SS, JSS	FA, FX
	Finishing to Light	SP, SM	SMG, LM		SI, LB	MQ		FG
	Light to Medium		SV		SU, GU	HG		PC
	Medium	MP, MK	MM, MV, Blank		MU		PM	MT, PMR
K Cast Iron	Finishing	FB			FC		CF	
	Light to Medium	MP, MK	MK		MU			MT
N Non-Ferrous Metal	Finishing	FA	AZ		AG, AW, AY	AH, AP	AL, PP	FL
	Finishing to Light	FB			LD, GD			SA
S Superalloys	Finishing	FB, FX, FY	FS		FC, SI	PP, MQ	PSS	
	Light to Medium		LS, MS		SU, GU	HQ, GK	PS, PM	
H Hardened Steel	Finishing				FV		HP	
	Light Cutting		BF		LV			

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Work Material	Applications	WINSTAR 萬事達	Sandvik 山特維克	Iscar 伊斯卡	Kennametal 肯納	SECO 山高	Walter 瓦爾特
P Steel	Finishing	FB, FX, FY	UM, PF, UF, MF, XF	PF	11, UF, MF, KF, XF	GT-F1, FF1	FM4, FP4
	Finishing to Light	SP			LF		
	Light to Medium		PM, UM, XM	SM, 14	MP	MF2, F1	MP4, MM4, FP6, PM5
	Medium	MP, MK	PR, UR, MMC, MPC, XR	19	MF	F2, M3, M5	RP4, RM4
M Stainless Steel	Finishing	FB, FX, FY	MF, XF	PF	11, UF	FF1	FM4
	Finishing to Light	SP, SM	UF		LF, FP	F1	
	Light to Medium		MM	SM	MP	MF2	MM4, PS5
	Medium	MP, MK	UM, MR, XR, UR		MF	F2, M3, M5	PM5, RM4
K Cast Iron	Finishing	FB	KF, XF		11, UF		FK6
	Light to Medium	MP, MK	KM, UM, XR		FP, LF, MF, MP	M5	MK4, RK4
N Non-Ferrous Metal	Finishing	FA	AL	AS, AF	HP	AL	PM2
	Finishing to Light	FB					
S Superalloys	Finishing	FB, FX, FY	WF, MF				
	Light to Medium		UM, PM			MF2, R2, R3	FV4, MV4
H Hardened Steel	Finishing						
	Light Cutting						

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