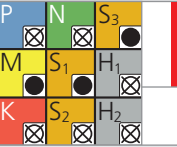
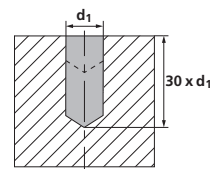
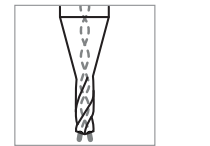


# CrazyDrill Cool SST-Inox 30 x d

RECOMMENDATION FOR USE  
 ● Excellent | ● Good | ○ Acceptable | ⊠ Not recommended



## DRILLING WITH INTERNAL COOLING | CUTTING DATA OVERVIEW



Materials group	Material	Mat. no.	DIN	AISI/ASTM/UNS	V <sub>c</sub> [m/min]   [SFM]			f [mm/rev]   [IPR]																									
					Low	Mid	High	Ød1 1.45 mm   .057"			Ød1 2.0 mm   .079"			Ød1 2.5 mm   .098"			Ød1 3.0 mm   .118"			Ød1 4.0 mm   .157"			Ød1 5.0 mm   .197"			Ød1 6.0 mm   .236"							
								Low	Mid	High	Low	Mid	High	Low	Mid	High	Low	Mid	High	Low	Mid	High	Low	Mid	High	Low	Mid	High					
P	Unalloyed carbon steel Rm < 800 N/mm <sup>2</sup>	1.0301	C10	AISI 1010																													
		1.0401	C15	AISI 1015																													
		1.1191	C45E/CK45	AISI 1045																													
		1.0044	S275JR	AISI 1020																													
	Low alloyed steel Rm > 900 N/mm <sup>2</sup>	1.0715	11SMn30	AISI 1215																													
		1.5752	15NiCr13	ASTM 3415 / AISI 3310																													
		1.7131	16MnCr5	AISI 5115																													
		1.3505	100Cr6	AISI 52100																													
		1.7225	42CrMo4	AISI 4140																													
		1.2842	90MnCrV8	AISI O2																													
	High alloyed tool steel Rm < 1200 N/mm <sup>2</sup>	1.2379	X153CrMoV12	AISI D2																													
		1.2436	X210CrW12	AISI D4/D6																													
1.3343		HS6-5-2C	AISI M2 / UNS T11302																														
1.3355		HS18-0-1	AISI T1 / UNS T12001																														
M		Stainless steel ferritic	1.4016	X6Cr17	AISI 430 / UNS S43000	60   197	80   262	100   328	0.015 .0006	0.023 .0009	0.030 .0012	0.020 .0008	0.030 .0012	0.040 .0016	0.025 .0010	0.038 .0015	0.050 .0020	0.030 .0012	0.045 .0018	0.060 .0024	0.040 .0016	0.060 .0024	0.080 .0031	0.050 .0020	0.100 .0039	0.100 .0039	0.060 .0024	0.090 .0035	0.120 .0047	0.060 .0024	0.090 .0035	0.120 .0047	
	1.4105		X6CrMoS17	AISI 430F																													
	Stainless steel martensitic	1.4034	X46Cr13	AISI 420C	60   197	80   262	100   328	0.030 .0012	0.045 .0018	0.060 .0024	0.040 .0016	0.060 .0024	0.080 .0031	0.050 .0020	0.075 .0030	0.100 .0039	0.060 .0024	0.090 .0035	0.120 .0047	0.080 .0031	0.120 .0047	0.160 .0063	0.100 .0039	0.150 .0059	0.200 .0079	0.120 .0047	0.180 .0071	0.240 .0094	0.120 .0047	0.180 .0071	0.240 .0094		
		1.4112	X90CrMoV18	AISI 440B																													
	Stainless steel martensitic - PH	1.4542	X5CrNiCuNb16-4	AISI 630 / ASTM 17-4 PH	60   197	80   262	100   328	0.015 .0006	0.030 .0012	0.045 .0018	0.020 .0008	0.040 .0016	0.060 .0024	0.025 .0010	0.050 .0020	0.075 .0030	0.030 .0012	0.060 .0024	0.090 .0035	0.040 .0016	0.080 .0031	0.120 .0047	0.050 .0020	0.100 .0039	0.150 .0059	0.060 .0024	0.120 .0047	0.180 .0071	0.060 .0024	0.120 .0047	0.180 .0071		
		1.4545	X5CrNiCuNb15-5	ASTM 15-5 PH																													
	Stainless steel austenitic	1.4301	X5CrNi18-10	AISI 304																													
		1.4435	X2CrNiMo18-14-3	AISI 316L																													
		1.4441	X2CrNiMo18-15-3	AISI 316LM	60   197	80   262	100   328	0.015 .0006	0.030 .0012	0.045 .0018	0.020 .0008	0.040 .0016	0.060 .0024	0.025 .0010	0.050 .0020	0.075 .0030	0.030 .0012	0.060 .0024	0.090 .0035	0.040 .0016	0.080 .0031	0.120 .0047	0.050 .0020	0.100 .0039	0.150 .0059	0.060 .0024	0.120 .0047	0.180 .0071	0.060 .0024	0.120 .0047	0.180 .0071		
	1.4539	X1NiCrMoCu25-20-5	AISI 904L																														
K	Cast iron	0.6020	GG20	ASTM 30																													
		0.6030	GG30	ASTM 40B																													
		0.7040	GGG40	ASTM 60-40-18																													
		0.7060	GGG60	ASTM 80-60-03																													
N	Aluminum alloy wrought	3.2315	AlMgSi1	ASTM 6351																													
		3.4365	AlZnMgCu1.5	ASTM 7075																													
	Aluminum alloy cast	3.2163	GD-ALSi9Cu3	ASTM A380																													
		3.2381	GD-ALSi10Mg	UNS A03590																													
	Copper	2.0040	Cu-OF / CW008A	UNS C10100																													
		2.0065	Cu-ETP / CW004A	UNS C11000																													
	Brass lead free	2.0321	CuZn37 CW508L	UNS C27400																													
		2.0360	CuZn40 CW509L	UNS C28000																													
	Brass, Bronze Rm < 400 N/mm <sup>2</sup>	2.0401	CuZn39Pb3 / CW614N	UNS C38500																													
		2.1020	CuSn6	UNS C51900																													
Bronze Rm < 600 N/mm <sup>2</sup>	2.0966	CuAl10Ni5Fe4	UNS C63000																														
	2.0960	CuAl9Mn2	UNS C63200																														
S <sub>1</sub>	Super alloys	2.4856		Inconel 625																													
		2.4668		Inconel 718	25   82	35   115	45   148	0.015 .0006	0.023 .0009	0.030 .0012	0.020 .0008	0.030 .0012	0.040 .0016	0.025 .0010	0.038 .0015	0.050 .0020	0.030 .0012	0.045 .0018	0.060 .0024	0.040 .0016	0.060 .0024	0.080 .0031	0.050 .0020	0.075 .0030	0.100 .0039	0.060 .0024	0.090 .0035	0.120 .0047	0.060 .0024	0.090 .0035	0.120 .0047		
		2.4617	NiMo28	Hastelloy B-2																													
		2.4665	NiCr22Fe18Mo	Hastelloy X																													
S <sub>2</sub>	Titanium pure	3.7035	Gr.2	ASTM B348 / F67																													
		3.7065	Gr.4	ASTM B348 / F68																													
S <sub>3</sub>	Titanium alloys	3.7165	TiAl6V4	ASTM B348 / F136																													
		9.9367	TiAl6Nb7	ASTM F1295																													
H <sub>1</sub> H <sub>2</sub>	Hardened steel ≥ 55 HRC	2.4964	CoCr20W15Ni	Haynes 25	50   164	70   230	90   295	0.015 .0006	0.030 .0012	0.045 .0018	0.020 .0008	0.040 .0016	0.060 .0024	0.025 .0010	0.050 .0020	0.075 .0030	0.030 .0012	0.060 .0024	0.090 .0035	0.040 .0016	0.080 .0031	0.120 .0047	0.050 .0020	0.100 .0039	0.150 .0059	0.060 .0024	0.120 .0047	0.180 .0071	0.060 .0024	0.120 .0047	0.180 .007		