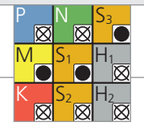
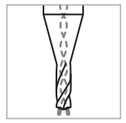
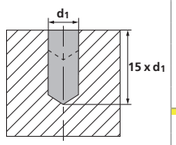
CrazyDrill Cool SST-Inox 15 x d

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_c [m/min]			f [mm/rev]																										
								Ød1 1.0 mm			Ød1 1.25 mm			Ød1 1.5 mm			Ød1 2.0 mm			Ød1 2.5 mm			Ød1 3.0 mm			Ød1 4.0 mm			Ød1 5.0 mm			Ød1 6.0 mm		
					Low	**Mid**	High	Low	**Mid**	High	Low	**Mid**	High	Low	**Mid**	High	Low	**Mid**	High	Low	**Mid**	High	Low	**Mid**	High	Low	**Mid**	High	Low	**Mid**	High	Tief	**Mid**	High
P	Unalloyed carbon steel Rm < 800 N/mm²	1.0301	C10	AISI 1010																														
		1.0401	C15	AISI 1015																														
		1.1191	C45E/CK45	AISI 1045																														
		1.0044	S275JR	AISI 1020																														
		1.0715	11SMn30	AISI 1215																														
	Low alloyed steel Rm > 900 N/mm²	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/mm²	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	80	100	0.010	0.020	0.030	0.013	0.025	0.038	0.015	0.030	0.045	0.020	0.040	0.060	0.025	0.050	0.075	0.030	0.060	0.090	0.040	0.080	0.120	0.050	0.100	0.150	0.060	0.120	0.180
		1.4105	X6CrMoS17	AISI 430F																														
	Stainless steel martensitic	1.4034	X46Cr13	AISI 420C	60	80	100	0.030	0.040	0.050	0.038	0.050	0.063	0.045	0.060	0.075	0.060	0.080	0.100	0.075	0.100	0.125	0.090	0.120	0.150	0.120	0.160	0.200	0.150	0.200	0.250	0.180	0.240	0.300
		1.4112	X90CrMoV18	AISI 440B																														
	Stainless steel martensitic – PH	1.4542	X5CrNiCuNb 16-4	AISI 630 / ASTM 17-4 PH	60	80	100	0.020	0.030	0.040	0.025	0.038	0.050	0.030	0.045	0.060	0.040	0.060	0.080	0.050	0.075	0.100	0.060	0.090	0.120	0.080	0.120	0.160	0.100	0.150	0.200	0.120	0.180	0.240
		1.4545	X5CrNiCuNb 15-5	ASTM 15-5 PH																														
	Stainless steel austenitic	1.4301	X5CrNi 18-10	AISI 304	60	80	100	0.020	0.030	0.040	0.025	0.038	0.050	0.030	0.045	0.060	0.040	0.060	0.080	0.050	0.075	0.100	0.060	0.090	0.120	0.080	0.120	0.160	0.100	0.150	0.200	0.120	0.180	0.240
		1.4435	X2CrNiMo 18-14-3	AISI 316L																														
		1.4441	X2CrNiMo 18-15-3	AISI 316LM																														
		1.4539	X1NiCrMoCu 25-20-5	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	Aluminium alloy wrought	3.2315	AlMgSi1	ASTM 6351																														
		3.4365	AlZnMgCu1.5	ASTM 7075																														
	Aluminium alloy cast	3.2163	GD-AlSi9Cu3	ASTM A380																														
		3.2381	GD-AlSi10Mg	UNS A03590																														
	Copper	2.004	Cu-OF / CW008A	UNS C10100																														
		2.0065	Cu-ETP / CW004A	UNS C11000																														
	Brass lead free	2.0321	CuZn37 CW508L	UNS C27400																														
		2.036	CuZn40 CW509L	UNS C28000																														
	Brass, Bronze Rm < 400 N/mm²	2.0401	CuZn39Pb3 / CW614N	UNS C38500																														
		2.102	CuSn6	UNS C51900																														
	Bronze Rm < 600 N/mm²	2.0966	CuAl10Ni5Fe4	UNS C63000																														
		2.096	CuAl9Mn2	UNS C63200																														
S_1	Super alloys	2.4856		Inconel 625	30	40	50	0.010	0.015	0.020	0.013	0.019	0.025	0.015	0.023	0.030	0.020	0.030	0.040	0.025	0.038	0.050	0.030	0.045	0.060	0.040	0.060	0.080	0.050	0.075	0.100	0.060	0.090	0.120
		2.4668		Inconel 718																														
		2.4617	NiMo28	Hastelloy B-2																														
		2.4665	NiCr22Fe18Mo	Hastelloy X																														
S_2	Titanium pure	3.7035	Gr.2	ASTM B348 / F67																														
		3.7065	Gr.4	ASTM B348 / F68																														
	Titanium alloys	3.7165	TiAl6V4	ASTM B348 / F136																														
		9.9367	TiAl6Nb7	ASTM F1295																														
S_3	CrCo alloys	2.4964	CoCr20W15Ni	Haynes 25	50	70	90	0.020	0.030	0.040	0.025	0.038	0.050	0.030	0.045	0.060	0.040	0.060	0.080	0.050	0.075	0.100	0.060	0.090	0.120	0.080	0.120	0.160	0.100	0.150	0.200	0.120	0.180	0.240
			CrCoMo28	ASTM F1537																														
H_1	Hardened steel < 55 HRC	1.2510	100MnCrMoW4	AISI O1																														
H_2	Hardened steel ≥ 55 HRC	1.2379	X153CrMoV12	AISI D2																														

Headquarter and Production
MIKRON TOOL SA AGNO
Phone +41 91 610 40 00
Fax. +41 91 610 40 10
mto@mikron.com

Production and Regrinding
MIKRON GMBH ROTTWEIL
Phone +49 741 5380 450
Fax. +49 741 5380 480
info.mtr@mikron.com

North and South America Sales
MIKRON CORP. MONROE
Phone +1 203 261 3100
Fax. +1 203 268 4752
mmo@mikron.com

China Sales
MIKRON TOOL SHANGHAI
Phone +86 21 2076 5671
Fax. +86 21 2076 5562