CRAZYDRILL™ by Mikron Tool Flex TITANIUM

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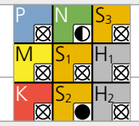
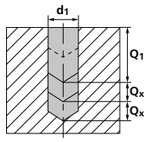
DRILLING TOOLS
CRAZYDRILL FLEX

Titanium - 50 x d

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



DRILLING WITH INTEGRATED COOLING | CUTTING DATA OVERVIEW



Materials group	Material	Mat. no.	DIN	AISI/ASTM/UNS	v_c [m/min] | [SFM] Ød1 ≤ 0.4 | .016" Mid	v_c Ød1 ≤ 0.4 | .016" High	v_c Ød1 > 0.4 | .016" Mid	v_c Ød1 > 0.4 | .016" High	Q_1	Q_x	f [mm/rev] | [IPR] Ød1 0.3 mm | .012" f	0.4 mm | .016" f	0.6 mm | .024" f	0.8 mm | .032" f	1.0–1.2 mm | .039"–.047" f
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							Recommended: CrazyDrill Flex Steel 50 x d1				
		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											
		1.4105	X6CrMoS17	AISI 430F											
	Stainless steel martensitic	1.4034	X46Cr13	AISI 420C											
		1.4112	X90CrMoV18	AISI 440B											
	Stainless steel martensitic – PH	1.4542	X5CrNiCuNb 16-4	AISI 630 / ASTM 17-4 PH							Recommended: CrazyDrill Flex SST-Inox 50 x d1				
		1.4545	X5CrNiCuNb 15-5	ASTM 15-5 PH											
	Stainless steel austenitic	1.4301	X5CrNi 18-10	AISI 304											
		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							Recommended: CrazyDrill Flex Steel 50 x d1				
		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							Recommended: CrazyDrill Flex Steel 50 x d1				
		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	5 | 16	40 | 131	20 | 66	40 | 131	2xd1	0.5xd1	0.015 .00059	0.020 .00079	0.030 .00118	0.040 .00157	0.060 .00236
		2.0065	Cu-ETP / CW004A	UNS C11000											
	Brass lead free	2.0321	CuZn37 CW508L	UNS C27400							Recommended: CrazyDrill Flex SST-Inox 50 x d1				
		2.036	CuZn40 CW509L	UNS C28000											
	Brass, Bronze Rm < 400 N/mm²	2.0401	CuZn39Pb3 / CW614N	UNS C38500							Recommended: CrazyDrill Flex Steel 50 x d1				
		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							Recommended: CrazyDrill Flex SST-Inox 50 x d1				
		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	5 | 16	20 | 66	20 | 66	30 | 98	2xd1	0.25xd1	0.003 .00012	0.004 .00016	0.006 .00024	0.008 .00031	0.012 .00047
		3.7065	Gr.4	ASTM B348 / F68											
	Titanium alloys	3.7165	TiAl6V4	ASTM B348 / F136	5 | 16	20 | 66	20 | 66	40 | 131	2xd1	0.25xd1	0.005 .00018	0.006 .00024	0.009 .00035	0.012 .00047	0.018 .00071
		9.9367	TiAl6Nb7	ASTM F1295											
S_3	CrCo alloys	2.4964	CoCr20W15Ni	Haynes 25							Recommended: CrazyDrill Flex SST-Inox 50 x d1				
			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											