

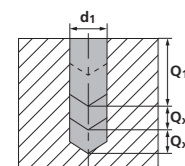
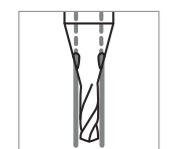
# Titanium - 50 x d

RECOMMANDATION D'UTILISATION

● Parfaitement recommandé | ● Recommandé | ○ Peu recommandé | ⊗ Non recommandé

P	N	S <sub>3</sub>
M	S <sub>1</sub>	H <sub>1</sub>
K	S <sub>2</sub>	H <sub>2</sub>

## PERÇAGE AVEC REFROIDISSEMENT INTÉGRÉ | VUE D'ENSEMBLE DES DONNÉES DE COUPE



Groupe matériaux	Matériau	Mat. no.	DIN	AISI/ASTM/UNS	v <sub>c</sub> [m/min]		Q <sub>1</sub>	f [mm/tour]														
					∅d1 ≤ 0.4	∅d1 > 0.4		∅d1														
								0.3 mm		0.4 mm		0.6 mm		0.8 mm		1.0 - 1.2 mm						
				f	Q <sub>x</sub>	f	Q <sub>x</sub>	f	Q <sub>x</sub>	f	Q <sub>x</sub>	f	Q <sub>x</sub>									
P	Aciers non alliés 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																		
		1.0715	11SMn30	AISI 1215																		
		1.5752	15NiCr13	ASTM 3415 / AISI 3310																		
	Aciers faiblement alliés Rm > 900 N/mm <sup>2</sup>	1.7131	16MnCr5	AISI 5115																		
		1.3505	100Cr6	AISI 52100																		
		1.7225	42CrMo4	AISI 4140																		
		1.2842	90MnCrV8	AISI O2																		
		1.2379	X153CrMoV12	AISI D2																		
		1.2436	X210CrW12	AISI D4/D6																		
Aciers à outil fortement alliés Rm < 1200 N/mm <sup>2</sup>	1.3343	HS6-5-2C	AISI M2 / UNS T11302																			
	1.3355	HS18-0-1	AISI T1 / UNS T12001																			
	Recommandé : CrazyDrill Flex Steel 50 x d1																					
	M	Aciers inoxydables ferritiques	1.4016	X6Cr17	AISI 430 / UNS S43000																	
			1.4105	X6CrMoS17	AISI 430F																	
			1.4034	X46Cr13	AISI 420C																	
Aciers inoxydables martensitiques		1.4112	X90CrMoV18	AISI 440B																		
		1.4542	X5CrNiCuNb 16-4	AISI 630 / ASTM 17-4 PH																		
		1.4545	X5CrNiCuNb 15-5	ASTM 15-5 PH																		
Aciers inoxydables austénitiques	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	Fonte grise	0.6020	GG20	ASTM 30																		
		0.6030	GG30	ASTM 40B																		
		0.7040	GGG40	ASTM 60-40-18																		
		0.7060	GGG60	ASTM 80-60-03																		
		Recommandé : CrazyDrill Flex Steel 50 x d1																				
N	Alliages d'aluminium corroyés	3.2315	AlMgSi1	ASTM 6351																		
		3.4365	AlZnMgCu1.5	ASTM 7075																		
	Fonte d'aluminium	3.2163	GD-AISI9Cu3	ASTM A380																		
		3.2381	GD-AISI10Mg	UNS A03590																		
	Cuivre	2.004	Cu-OF / CW008A	UNS C10100	5 - 20	20 - 40		7xd1	0.040	0.3xd1	0.060	0.375xd1	0.120	0.3xd1	0.180	0.3xd1	0.200	0.4xd1				
		2.0065	Cu-ETP / CW004A	UNS C11000																		
	Laiton sans plomb	2.0321	CuZn37 CW508L	UNS C27400																		
		2.036	CuZn40 CW509L	UNS C28000																		
	Laiton, Bronze Rm < 400 N/mm <sup>2</sup>	2.0401	CuZn39Pb3 / CW614N	UNS C38500																		
		2.102	CuSn6	UNS C51900																		
Bronze Rm < 600 N/mm <sup>2</sup>	2.0966	CuAl10Ni5Fe4	UNS C63000																			
	2.096	CuAl9Mn2	UNS C63200																			
S <sub>1</sub>	Super alliages	2.4856		Inconel 625																		
		2.4668		Inconel 718																		
		2.4617	NiMo28	Hastelloy B-2																		
		2.4665	NiCr22Fe18Mo	Hastelloy X																		
S <sub>2</sub>	Titane pur	3.7035	Gr.2	ASTM B348 / F67	5 - 20	20 - 30		3xd1	0.006	0.25xd1	0.008	0.25xd1	0.012	0.25xd1	0.016	0.4xd1	0.024	0.3xd1				
		3.7065	Gr.4	ASTM B348 / F68																		
S <sub>3</sub>	Alliages de titane	3.7165	TiAl6V4	ASTM B348 / F136	5 - 20	20 - 40		3xd1	0.009	0.3xd1	0.016	0.375xd1	0.024	0.3xd1	0.032	0.3xd1	0.040	0.4xd1				
		9.9367	TiAl6Nb7	ASTM F1295																		
H <sub>1</sub>	Aciers trempés < 55 HRC	1.2510	100MnCrMoW4	AISI O1																		
		1.2379	X153CrMoV12	AISI D2																		