

RDMT 1604 M0 LT 30

Material Group	Gr. N°	VDI Group	Material Examples*	Hardness	D.O.C. [mm]		Feed [mm/tooth]		V _c [m/min]		Optimal cutting conditions			
					min	max	min	max	min	max	D.O.C.	Feed	V _c	
Steel	Non-alloyed	1	C35, Ck45, 1020, 1045, 1060, 28Mn6	125 HB	0.5	4.0	0.25	1.00	190	330	2.0	0.35	250	
		2		190 HB									300	220
		3		250 HB									250	200
	Low alloyed	2	42CrMo4, St50, Ck60, 4140, 4340, 100Cr6	180 HB	0.5	4.0	0.21	0.78	150	240	2.0	0.30	200	
				230 HB									150	180
				280 HB									130	150
				350 HB									130	140
	High alloyed	3	X40CrMoV5, H13, M42, D3, S6-5-2, 12Ni19	220 HB	0.5	2.9	0.17	0.69	90	150	1.5	0.27	130	
				280 HB									90	120
				320 HB									60	100
				350 HB									60	80
Stainless Steel	Austenitic	4	304, 316, X5CrNi18-9	180 HB	0.5	4.0	0.21	0.78	190	250	2.0	0.30	220	
				240 HB									160	190
	Duplex	5	X2CrNiN23-4, S31500	290 HB	0.5	3.1	0.17	0.56	70	130	1.5	0.24	100	
				310 HB									120	90
	Ferritic & Martensitic	6	410, X6Cr17, 17-4 PH, 430	200 HB	0.5	4.0	0.21	0.78	150	210	2.0	0.30	190	
				42 HRC									90	130
Cast Iron	Grey	7	GG20, GG40, EN-GJL-250, No30B	150 HB	0.5	4.0	0.25	1.00	150	240	2.0	0.35	200	
				200 HB									220	180
				250 HB									190	160
	Malleable & Nodular	8	GGG40, GGG70, 50005	150 HB	0.5	4.0	0.21	0.88	100	180	2.0	0.30	180	
				200 HB									180	150
				250 HB									150	130
High Temp. Alloys	Fe, Ni & Co based	9	Incoloy 800	240 HB	0.5	3.1	0.17	0.56	25	45	1.5	0.24	32	
				250 HB									45	30
				350 HB									45	30
	Ti based	10	TiAl6V4	-	0.5	3.1	0.17	0.63	40	65	1.5	0.27	55	
				-									30	40
Hardened Mat.	Steel	11	X100CrMo13, 440C, G-X260NiCr42	45 HRC	0.4	1.4	0.14	0.56	40	80	1.0	0.21	60	
				50 HRC									70	55
				55 HRC									60	50
	Chilled Cast Iron	40	Ni-Hard 2	400 HB	0.4	1.1	0.14	0.56	40	80	0.8	0.21	50	
	White Cast Iron	41	G-X300CrMo15	55 HRC	0.4	1.0	0.14	0.44	30	60	0.5	0.18	40	
NF	Al (>8%Si)	12	25	AlSi12	130 HB	0.5	4.0	0.25	1.00	200	400	2.0	0.38	280

