

SEKN 1203 AFTN 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	7.0	0.18	0.46	190	330	3.0	0.34	250	
		2		190 HB									220	
		3		250 HB									200	
	Low alloyed	2	42CrMo4, St50, Ck60, 4140, 4340, 100Cr6	180 HB	0.5	7.0	0.15	0.36	150	240	3.0	0.30	200	
				4,6									230 HB	180
				5,7									280 HB	150
				8									350 HB	140
	High alloyed	3	X40CrMoV5, H13, M42, D3, S6-5-2, 12Ni19	220 HB	0.5	5.0	0.12	0.32	90	150	2.3	0.27	130	
				10									280 HB	120
				11									320 HB	100
				11									350 HB	80
Stainless Steel	Austenitic	4	304, 316, X5CrNi18-9	180 HB	0.5	7.0	0.15	0.32	190	250	3.0	0.27	220	
				14									240 HB	190
	Duplex	5	X2CrNiN23-4, S31500	290 HB	0.5	5.0	0.12	0.26	70	130	2.3	0.24	100	
				14									310 HB	90
	Ferritic & Martensitic	6	410, X6Cr17, 17-4 PH, 430	200 HB	0.5	7.0	0.15	0.32	150	210	3.0	0.27	190	
				13									42 HRC	130
Cast Iron	Grey	7	GG20, GG40, EN-GJL-250, No30B	150 HB	0.5	7.0	0.18	0.46	150	240	3.0	0.34	200	
				15									200 HB	180
				16									250 HB	160
	Malleable & Nodular	8	GGG40, GGG70, 50005	150 HB	0.5	7.0	0.15	0.41	100	180	3.0	0.30	180	
				17,19									200 HB	150
				18,20									250 HB	130
High Temp. Alloys	Fe, Ni & Co based	9	Incoloy 800, Inconel 700, Stellite 21	240 HB	0.5	5.0	0.12	0.26	25	45	2.3	0.24	32	
				33									250 HB	30
				34									350 HB	30
	Ti based	10	TiAl6V4, T40	-	0.5	5.0	0.12	0.29	40	65	2.3	0.27	55	
37	-	40												
Hardened Mat.	Steel	11	X100CrMo13, 440C, G-X260NiCr42	45 HRC	0.5	2.5	0.10	0.26	40	80	1.5	0.21	60	
				38									50 HRC	55
				38									55 HRC	50
	Chilled Cast Iron	40	Ni-Hard 2	400 HB	0.5	2.0	0.10	0.26	40	80	1.1	0.21	50	
	White Cast Iron	41	G-X300CrMo15	55 HRC	0.5	1.5	0.10	0.20	30	60	0.8	0.18	40	
NF	Al (>8%Si)	12	25	AlSi12	130 HB	0.5	7.0	0.18	0.46	200	400	3.0	0.37	280