

SNKX 1607-45° 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,	125 HB	0.5	6.5	0.16	0.58	190	330	4.0	0.46	250
			1045, 1060,	190 HB		6.5		0.58		300			220
			28Mn6	250 HB		6.5		0.58		250			200
	Low alloyed	2	6	180 HB	0.5	6.5	0.14	0.50	150	240	4.0	0.40	200
			4,6	230 HB		6.5		0.50		210			180
			5,7	280 HB		6.5		0.44		190			150
			8	350 HB		6.5		0.44		170			140
	High alloyed	3	10	220 HB	0.5	6.5	0.11	0.44	90	150	3.0	0.36	130
			10	280 HB		6.5		0.44		130			120
			11	320 HB		6.5		0.36		110			100
			11	350 HB		6.5		0.36		90			80
Stainless Steel	Austenitic	4	14	180 HB	0.5	6.5	0.14	0.44	190	250	4.0	0.34	220
			14	240 HB		6.5		0.40		210			190
	Duplex	5	14	290 HB	0.5	5.0	0.11	0.36	70	130	3.0	0.30	100
			14	310 HB		5.0		0.36		120			90
	Ferritic & Martensitic	6	12	200 HB	0.5	6.5	0.14	0.44	150	210	4.0	0.34	190
			13	42 HRC		5.0		0.40		150			130
Cast Iron	Grey	7	15	150 HB	0.5	6.5	0.17	0.58	150	240	4.0	0.46	200
			15	200 HB		6.5		0.58		220			180
			16	250 HB		6.5		0.58		190			160
	Malleable & Nodular	8	17,19	150 HB	0.5	6.5	0.14	0.52	100	200	4.0	0.40	180
			17,19	200 HB		6.5		0.52		180			150
			18,20	250 HB		6.5		0.52		150			130
High Temp. Alloys	Fe, Ni & Co based	9	31,32	240 HB	0.5	5.0	0.11	0.36	25	45	3.0	0.30	32
			33	250 HB		5.0		0.36		45			30
			34	350 HB		5.0		0.36		45			30
	Ti based	10	36	-	0.5	5.0	0.11	0.40	40	65	3.0	0.34	55
Hardened Mat.	Steel	11	38	45 HRC		3.0		0.36		80			60
			38	50 HRC	0.4	3.0	0.10	0.32	40	70	1.5	0.26	55
			38	55 HRC		1.5		0.28		60			50
	Chilled Cast Iron		40	400 HB	0.4	3.0	0.10	0.36	40	80	1.5	0.28	50
	White Cast Iron		41	55 HRC	0.4	1.5	0.10	0.28	30	60	1.0	0.24	40
NF	Al (>8%Si)	12	25	AlSi12	0.5	6.5	0.17	0.60	200	400	4.0	0.50	280