



MACHINING CONDITIONS

SDKT 1204 AETN LT 30

M0000171

Material Group	Lamina Group	Material Example	Hardness	D.O.C		Feed		Vc		Advised D.O.C [mm]	Advised Feed [mm/t]	Advised Vc [m/min]	
				min[mm]	max[mm]	min[mm/t]	max [mm/t]	min [m/min]	max [m/min]				
Non Alloyed	1	C35, Ck45, 1020, 1045, 1060, 28Mn6	125 HB	0.5	7	0.18	0.53	190	330	3	0.39	250	
			190 HB	0.5	7	0.18	0.53	190	300	3	0.39	220	
			250 HB	0.5	7	0.18	0.53	190	250	3	0.39	200	
Steel	2	42CrMo4, St50, Ck60, 4140, 4340, 100Cr6	230 HB	0.5	7	0.15	0.41	150	210	3	0.34	180	
			280 HB	0.5	7	0.15	0.36	130	190	3	0.31	150	
			180 HB	0.5	7	0.15	0.41	150	240	3	0.34	200	
			350 HB	0.5	7	0.15	0.36	130	170	3	0.31	140	
High Alloyed	3	X40CrMoV5, H13, M42, D3, S6-5-2, 12Ni19	220 HB	0.5	5	0.12	0.36	90	150	2.3	0.31	130	
			280 HB	0.5	5	0.12	0.36	90	130	2.3	0.31	120	
			320 HB	0.5	5	0.12	0.3	60	110	2.3	0.27	100	
			350 HB	0.5	5	0.12	0.3	60	90	2.3	0.27	80	
Stainless Steel	Austentic	304, 316, X5CrNi18-9	180 HB	0.5	7	0.15	0.36	190	250	3	0.31	220	
	Duplex		240 HB	0.5	7	0.12	0.33	160	210	3	0.31	190	
Cast Iron	6	X2CrNiN23-4, S31500	290 HB	0.5	5	0.12	0.3	70	130	2.3	0.27	100	
			310 HB	0.5	5	0.12	0.3	70	120	2.3	0.27	90	
			200 HB	0.5	7	0.15	0.36	150	210	3	0.31	190	
			42 HRc	0.5	5	0.15	0.3	90	150	2.3	0.27	130	
Grey	7	GG20, GG40, EN-GJL-250, N030B	150 HB	0.5	7	0.18	0.53	150	240	3	0.39	200	
			200 HB	0.5	7	0.18	0.53	150	220	3	0.39	180	
			250 HB	0.5	7	0.18	0.53	150	190	3	0.39	160	
Malleable & Nodular	8	GGG40, GGG70, 50005	150 HB	0.5	7	0.15	0.46	100	200	3	0.34	180	
			200 HB	0.5	7	0.15	0.46	100	180	3	0.34	150	
			250 HB	0.5	7	0.15	0.46	100	150	3	0.34	130	
Fe, Ni & Co Based	9	Incoloy 800	240 HB	0.5	5	0.12	0.3	30	50	2.3	0.27	32	
		Inconel 700	250 HB	0.5	5	0.12	0.3	30	50	2.3	0.27	30	
		Stellite 21	350 HB	0.5	5	0.12	0.3	30	50	2.3	0.27	30	
Ti Based	10	T40	-	0.5	5	0.12	0.3	30	60	2.3	0.27	40	
		TiAl6V4	-	0.5	5	0.12	0.33	40	70	2.3	0.31	55	
Hardened Materials	11	G-X300CrMo15	55 HRc	0.5	1.5	0.1	0.23	30	60	0.8	0.2	40	
		Ni-Hard 2	400 HB	0.5	2	0.1	0.3	40	80	1.1	0.24	50	
		X100CrMo13, 440C, G-X260NiCr42	45 HRc	0.5	2.5	0.1	0.3	40	80	1.5	0.24	60	
			50 HRc	0.5	1.8	0.1	0.26	40	70	1.1	0.22	55	
			55 HRc	0.5	1.5	0.1	0.23	40	60	0.8	0.2	50	
Aluminium	Al (>8%Si)	12	AISI12	130 HB	0.5	7	0.18	0.53	200	400	3	0.43	280