

Material Group	Gr. N°	Material Examples	Hardness	Vc [m/min]	
				min	max
P	1	C35, Ck45, 1020, 1045, 1060, 26Mn6	125 HB	70	120
			190 HB	65	110
			250 HB	60	100
	2	42CrMo4, St50, Ck60, 4140, 4340, 100Cr6	180 HB	65	110
			230 HB	60	90
			280 HB	55	85
			350 HB	55	80
H	3	X40CrMoV5, H13, M42, D3, S6-5-2, 12Ni19	220 HB	60	90
			280 HB	55	80
			320 HB	55	75
			350 HB	50	70
	4	304, 316, X5CrNi18-9	180 HB	60	80
			240 HB	50	70
M	5	X2CrNiN23-4, S31500	290 HB	-	-
			310 HB	-	-
	6	410, X6Cr17, 17-4PH, 430	200 HB	40	60
			42 HRc	30	45
K	7	GG20, GG40, EN-GJL-250, N030B	150 HB	70	120
			200 HB	65	110
			250 HB	55	100
	8	GGG40, GGG70, 50005	150 HB	65	110
			200 HB	60	100
			250 HB	55	90
S	9	Incoloy 800	240 HB	-	-
		Inconel 700	250 HB	-	-
		Stellite 21	350 HB	-	-
	10	T40	-	-	-
		TiAl6V4	-	-	-
	H	X100CrMo13, 440C, G-X260NiCr42	45 HRc	35	60
			50 HRc	30	50
			55 HRc	-	-
		Ni-Hard 2	400 HB	-	-
		G-X300CrMo15	55 HRc	-	-
NF	12	AlSi12	130 HB	120	180

Material Group	Gr. N°	Material Examples	Hardness	Profiling		Slotting		fz [mm/tooth]			
				ap	ae	ap	Ø6.0	Ø8.0	Ø10.0	Ø12.0	Ø16.0
P	1	C35, Ck45, 1020, 1045, 1060, 28Mn6	125 HB	1.5xØ	0.5xØ	1.0xØ	0.032	0.044	0.052	0.062	0.084
			190 HB								
			250 HB								
P	2	42CrMo4, St50, Ck60, 4140, 4340, 100Cr6	180 HB	1.5xØ	0.5xØ	1.0xØ	0.031	0.042	0.050	0.059	0.074
			230 HB								
			280 HB			0.7xØ	0.026	0.034	0.042	0.050	0.059
			350 HB								
P	3	X40CrMoV5, H13, M42, D3, S6-5-2, 12Ni19	220 HB	1.5xØ	0.5xØ	1.0xØ	0.027	0.037	0.044	0.051	0.059
			280 HB								
			320 HB			0.6xØ	0.020	0.028	0.033	0.039	0.042
			350 HB								
M	4	304, 316, X5CrNi18-9	180 HB	1.5xØ	0.5xØ	1.0xØ	0.022	0.030	0.036	0.042	0.054
			240 HB								
M	6	410, X6Cr17, 17-4 PH, 430	200 HB	1.5xØ	0.5xØ	1.0xØ	0.017	0.023	0.028	0.032	0.040
			42 HRc								
K	7	GG20, GG40, EN-GJL-250, No30B	150 HB	1.5xØ	0.5xØ	1.0xØ	0.037	0.051	0.061	0.071	0.079
			200 HB								
			250 HB								
K	8	GGG40, GGG70, 50005	150 HB	1.5xØ	0.5xØ	1.0xØ	0.032	0.044	0.052	0.062	0.075
			200 HB								
			250 HB								
H	11	X100CrMo13, 440C, G-X260NiCr42	45 HRc	1.5xØ	0.3xØ	0.2xØ	0.014	0.019	0.022	0.026	0.029
			50 HRc								
NF	AI (>8%Si)	AlSi12	130 HB	1.5xØ	0.5xØ	0.1xØ	0.034	0.046	0.055	0.065	0.084