

Materials group	Material	Material number	DIN	AISI/ASTM/UNS	v <sub>c</sub> [SFM]	Q <sub>1</sub>	Q <sub>x</sub>	Ød <sub>1</sub> .0787	Ød <sub>1</sub> .0984	Ød <sub>1</sub> .1181	Ød <sub>1</sub> .1575	Ød <sub>1</sub> .1969	Ød <sub>1</sub> .2362
								f [IPR]	f [IPR]	f [IPR]	f [IPR]	f [IPR]	f [IPR]
P	Unalloyed carbon steel R <sub>m</sub> < 800 N/mm <sup>2</sup>	1.0301	C10	AISI 1010	164 - 328	40xd <sub>1</sub>	-	.0031	.0031	.0039	.0047	.0055	.0063
		1.0401	C15	AISI 1015									
		1.1191	C45E/CK45	AISI 1045									
		1.0044	S275JR	AISI 1020									
		1.0715	11SMn30	AISI 1215									
	Low alloyed steel R <sub>m</sub> > 900 N/mm <sup>2</sup>	1.5752	15NiCr13	ASTM 3415 / AISI 3310	164 - 328	40xd <sub>1</sub>	-	.0031	.0039	.0047	.0055	.0063	.0071
		1.7131	16MnCr5	AISI 5115									
		1.3505	100Cr6	AISI 52100									
		1.7225	42CrMo4	AISI 4140									
		1.2842	90MnCrV8	AISI O2									
1.2379		X153CrMoV12	AISI D2										
High alloyed tool steel R <sub>m</sub> < 1200 N/mm <sup>2</sup>	1.2436	X210CrW12	AISI D4/D6	131 - 262	40xd <sub>1</sub>	-	.0031	.0039	.0043	.0055	.0063	.0067	
	1.3343	HS6-5-2C	AISI M2 / UNS T11302										
	1.3355	HS18-0-1	AISI T1 / UNS T12001										
M	Stainless steel ferritic	1.4016	X6Cr17	AISI 430 / UNS S43000	98 - 197	40xd <sub>1</sub>	-	.0024	.0028	.0039	.0047	.0059	.0071
		1.4105	X6CrMoS17	AISI 430F									
	Stainless steel martensitic	1.4034	X46Cr13	AISI 420C	131 - 262	40xd <sub>1</sub>	-	.0039	.0047	.0059	.0071	.0079	.0087
		1.4112	X90CrMoV18	AISI 440B									
	Stainless steel martensitic - PH	1.4542	X5CrNiCuNb 16-4	AISI 630 / ASTM 17-4 PH									
		1.4545	X5CrNiCuNb 15-5	ASTM 15-5 PH									
	Stainless steel austenitic	1.4301	X5CrNi 18-10	AISI 304	98 - 197	5xd <sub>1</sub>	2xd <sub>1</sub>	.0024	.0028	.0039	.0047	.0059	.0071
1.4435		X2CrNiMo 18-14-3	AISI 316L										
1.4441		X2CrNiMo 18-14-3	AISI 316LM										
1.4539		X1NiCrMoCu 25-20-5	AISI 904L										
K	Cast iron	0.6020	GG20	ASTM 30	328 - 656	40xd <sub>1</sub>	-	.0039	.0047	.0059	.0071	.0079	.0098
		0.6030	GG30	ASTM 40B									
		0.7040	GGG40	ASTM 60-40-18									
		0.7060	GGG60	ASTM 80-60-03									
N	Aluminium alloy wrought	3.2315	AlMgSi1	ASTM 6351	328 - 656	40xd <sub>1</sub>	-	.0028	.0039	.0047	.0079	.0079	.0079
		3.4365	AlZnMgCu1.5	ASTM 7075									
	Aluminium alloy cast	3.2163	GD-AlSi9Cu3	ASTM A380	262 - 492	40xd <sub>1</sub>	-	.0024	.0031	.0039	.0047	.0059	.0079
		3.2381	GD-AlSi10Mg	UNS A03590									
	Copper	2.004	Cu-OF / CW008A	UNS C10100	131 - 262	2xd <sub>1</sub>	2xd <sub>1</sub>	.0026	.0031	.0043	.0051	.0063	.0075
		2.0065	Cu-ETP / CW004A	UNS C11000									
	Brass lead free	2.0321	CuZn37 CW508L	UNS C27400	131 - 262	2xd <sub>1</sub>	2xd <sub>1</sub>	.0026	.0031	.0043	.0051	.0063	.0075
		2.036	CuZn40 CW509L	UNS C28000									
	Brass, Bronze R <sub>m</sub> < 400 N/mm <sup>2</sup>	2.0401	CuZn39Pb3 / CW614N	UNS C38500	164 - 4394	40xd <sub>1</sub>	-	.0039	.0051	.0063	.0071	.0091	.0098
		2.102	CuSn6	UNS C51900									
Bronze R <sub>m</sub> < 600 N/mm <sup>2</sup>	2.0966	CuAl10Ni5Fe4	UNS C63000	131 - 262	40xd <sub>1</sub>	-	.0026	.0031	.0043	.0051	.0063	.0075	
	2.096	CuAl9Mn2	UNS C63200										
S <sub>1</sub>	Super alloys	2.4856		Inconel 625									
		2.4668		Inconel 718									
		2.4617	NiMo28	Hastelloy B-2									
		2.4665	NiCr22Fe18Mo	Hastelloy X									
S <sub>2</sub>	Titanium pure	3.7035	Gr.2	ASTM B348 / F67	82 - 164	3xd <sub>1</sub>	1xd <sub>1</sub>	.0012	.0016	.0022	.0028	.0031	.0039
		3.7065	Gr.4	ASTM B348 / F68									
	Titanium alloys	3.7165	TiAl6V4	ASTM B348 / F136	66 - 131	5xd <sub>1</sub>	1xd <sub>1</sub>	.0012	.0016	.0022	.0028	.0031	.0039
9.9367		TiAl6Nb7	ASTM F1295										
S <sub>3</sub>	Cr-Co alloys	2.4964	CoCr20W15Ni CrCoMo28	Haynes 25 ASTM F1537	66 - 131	5xd <sub>1</sub>	2xd <sub>1</sub>	.0012	.0016	.0022	.0028	.0031	.0039
H <sub>1</sub>	Hardened steel < 55 HRC	1.2510	100MnCrMoW4	AISI O1	98 - 197	5xd <sub>1</sub>	1xd <sub>1</sub>	.0031	.0039	.0047	.0055	.0063	.0071
H <sub>2</sub>	Hardened steel ≥ 55 HRC	1.2379	X153CrMoV12	AISI D2									

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