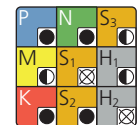
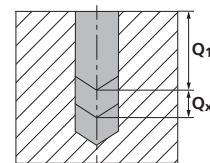


Version 20 x d

Materials group	Material	Material number	DIN	AISI/ASTM/UNS	v_c	Q_1	Q_x	$\varnothing d_1$.0394	$\varnothing d_1$.0492	$\varnothing d_1$.0591	$\varnothing d_1$.0787	$\varnothing d_1$.0984	$\varnothing d_1$.1181	$\varnothing d_1$.1575	$\varnothing d_1$.1969	$\varnothing d_1$.2362	
					[SFM]			f [IPR]	f [IPR]	f [IPR]	f [IPR]	f [IPR]	f [IPR]	f [IPR]	f [IPR]	f [IPR]	f [IPR]
P	Unalloyed carbon steel $R_m < 800 \text{ N/mm}^2$	1.0301	C10	AISI 1010	164 - 328	20xd ₁	-	.0024	.0024	.0031	.0039	.0047	.0059	.0071	.0087	.0098	
		1.0401	C15	AISI 1015													
		1.1191	C45E/CK45	AISI 1045													
		1.0044	S275JR	AISI 1020													
		1.0715	11SMn30	AISI 1215													
	Low alloyed steel $R_m > 900 \text{ N/mm}^2$	1.5752	15NiCr13	ASTM 3415 / AISI 3310	164 - 328	20xd ₁	-	.0024	.0024	.0031	.0039	.0047	.0059	.0059	.0071	.0079	.0079
		1.7131	16MnCr5	AISI 5115													
		1.3505	100Cr6	AISI 52100													
		1.7225	42CrMo4	AISI 4140													
		1.2842	90MnCrV8	AISI O2													
High alloyed tool steel $R_m < 1200 \text{ N/mm}^2$	1.2379	X153CrMoV12	AISI D2	131 - 262	20xd ₁	-	.0016	.0024	.0031	.0039	.0047	.0059	.0071	.0079	.0087	.0087	
	1.2436	X210CrW12	AISI D4/D6														
	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	20xd ₁	-	.0008	.0016	.0024	.0031	.0039	.0051	.0059	.0079	.0087	
		1.4105	X6CrMoS17	AISI 430F													
	Stainless steel martensitic	1.4034	X46Cr13	AISI 420C	131 - 262	20xd ₁	-	.0016	.0024	.0031	.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 ₁	2xd ₁	.0008	.0012	.0016	.0024	.0028	.0039	.0047	.0059	.0071	.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	20xd ₁	-	.0024	.0031	.0039	.0047	.0059	.0071	.0079	.0098	.0118	
		0.6030	GG30	ASTM 40B													
		0.7040	GGG40	ASTM 60-40-18													
		0.7060	GGG60	ASTM 80-60-03													



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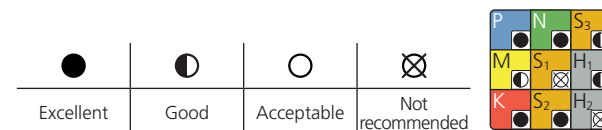
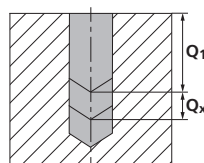
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Version 20 x d

Materials group	Material	Material number	DIN	AISI/ASTM/UNS	v_c	Q_1	Q_x	$\varnothing d_1$	$\varnothing d_1$	$\varnothing d_1$	$\varnothing d_1$	$\varnothing d_1$	$\varnothing d_1$	$\varnothing d_1$	$\varnothing d_1$	$\varnothing d_1$	
					[SFM]			.0394	.0492	.0591	.0787	.0984	.1181	.1575	.1969	.2362	
								f	f	f	f	f	f	f	f	f	
								[IPR]	[IPR]	[IPR]	[IPR]	[IPR]	[IPR]	[IPR]	[IPR]	[IPR]	[IPR]
N	Aluminium alloy wrought	3.2315	AlMgSi1	ASTM 6351	328 - 656	20xd ₁	-	.0016	.0024	.0031	.0047	.0063	.0079	.0098	.0118	.0098	
		3.4365	AlZnMgCu1.5	ASTM 7075													
	Aluminium alloy cast	3.2163	GD-AlSi9Cu3	ASTM A380	262 - 492	20xd ₁	-	.0016	.0024	.0031	.0039	.0047	.0059	.0079	.0098	.0118	
		3.2381	GD-AlSi10Mg	UNS A03590													
	Copper	2.004	Cu-OF / CW008A	UNS C10100	131 - 262	2xd ₁	2xd ₁	.0010	.0018	.0026	.0033	.0043	.0055	.0063	.0071	.0079	
		2.0065	Cu-ETP / CW004A	UNS C11000													
	Brass lead free	2.0321	CuZn37 CW508L	UNS C27400	131 - 262	2xd ₁	2xd ₁	.0010	.0018	.0026	.0033	.0043	.0055	.0063	.0071	.0079	
		2.036	CuZn40 CW509L	UNS C28000													
	Brass, Bronze R _m < 400 N/mm ²	2.0401	CuZn39Pb3 / CW614N	UNS C38500	164 - 394	20xd ₁	-	.0012	.0020	.0028	.0035	.0047	.0059	.0067	.0087	.0094	
		2.102	CuSn6	UNS C51900													
Bronze R _m < 600 N/mm ²	2.0966	CuAl10Ni5Fe4	UNS C63000	131 - 262	20xd ₁	-	.0010	.0018	.0026	.0033	.0043	.0055	.0063	.0083	.0091		
	2.096	CuAl9Mn2	UNS C63200														
S ₁	Super alloys	2.4856		Inconel 625													
		2.4668		Inconel 718													
		2.4617	NiMo28	Hastelloy B-2													
		2.4665	NiCr22Fe18Mo	Hastelloy X													
S ₂	Titanium pure	3.7035	Gr.2	ASTM B348 / F67	82 - 164	3xd ₁	1xd ₁	.0004	.0008	.0012	.0016	.0020	.0026	.0031	.0039	.0047	
		3.7065	Gr.4	ASTM B348 / F68													
	Titanium alloys	3.7165	TiAl6V4	ASTM B348 / F136	66 - 131	5xd ₁	1xd ₁	.0004	.0008	.0012	.0016	.0020	.0026	.0031	.0039	.0047	
9.9367		TiAl6Nb7	ASTM F1295														
S ₃	Cr-Co alloys	2.4964	CoCr20W15Ni	Haynes 25	66 - 131	5xd ₁	2xd ₁	.0004	.0008	.0012	.0016	.0020	.0026	.0031	.0039	.0047	
			CrCoMo28	ASTM F1537													
H ₁	Hardened steel < 55 HRC	1.2510	100MnCrMoW4	AISI O1	98 - 197	5xd ₁	1xd ₁	.0008	.0016	.0024	.0031	.0039	.0047	.0055	.0063	.0071	
H ₂	Hardened steel ≥ 55 HRC	1.2379	X153CrMoV12	AISI D2													



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