Technical information

Material table

Material main group	Material sub-group	Quality	StNr	DIN	AFNOR	UNI	BS	JIS	SS	GOST	UNS	USA
1 Machining, constructional and spring steel	1.1 Machining steels	1.1.1 up to 500 N/mm²	1.0711	9 S 20		CF 9 S 22	220 M 07	SUM 21			G 12120	1212
			1.0715	9 SMn 28	S 250	CF 9 SMn 28	230 M 07	SUM 22	1912		G 12130	1213
			1.0718	9 SMnPb 28	S 250 Pb	CF 9 SMnPb 28		SUM 22 L	1914		G 12134	12 L 13
			1.0721	10 S 20	10 F 1	CF 10 S 20	210 M 15					1108
			1.0722	10 SPb 20	10 PbF 2	CF 10 SPb 20						11 L 08
			1.0723	15 S 20			210 A 15	SUM 32	1922			
			1.0736	9 SMn 36	S 300	CF 9 SMn 36	240 M 07				G 12150	1215
			1.0737	9 SMnPb 36	S 300 Pb	CF 9 SMnPb 36			1926		G 12144	12 L 14
		1.1.2 above 500 N/mm²	1.0726	35 S 20	35 MF 4		212 M 36		1957		G 11400	1140
			1.0727	45 S 20	45 MF 4		212 M 44		1973		G 11460	1146
			1.0728	60 S 20	60 MF 4							
	1.2 Constructional steel	1.2.1 non alloyed up to 500 N/mm²	1.0037	St 37-2				STKM 12 C				
			1.0044	St 44-2	E 28-2	Fe 430 B FN	4360-43 B	SM 41 B	1412			A 570 Gr. 40
			1.0116	St 37-3	E 24-3; E 24-4	Fe 360 D FF	4360-40 C		1312; 1313	St 3 kp; ps; sp		A 573 Gr. 58
			1.0144	St 44-3	E 28-3; E 28-4	Fe 430 D FF	4360-43 C	SM 41 C	1412; 1414	St 4 kp; ps; sp		A 573 Gr. 70
		1.2.2 non alloyed above 500 N/mm²	1.0050	St 50-2	A 50-2	Fe 490	4360-50 B	SS 50	2172	BSt 5 ps; sp		A 570 Gr. 50
			1.0060	St 60-2	A 60-2	Fe 590; Fe 60-2	4360-SSE; SSC	SM 58		St 6 ps; sp		
			1.0570	St 52-3	E 36-3; E 36-4	Fe 510 B; C; D	4360-50 B	SM 50 YA	2132	17 GS		
		1.2.3 alloyed	1.5415	15 Mo 3	15 D 3	16 Mo 3	1501-240		2912			A 204 Gr. A
			1.5423	16 Mo 5		16 Mo 5	1503-245-420				G 45200	4520
			1.5622	14 Ni 6	16 N 6	14 Ni 6						A 350-LF 5
			1.5680	12 Ni 19	Z 18 N 5							2515
			1.7335	13 CrMo 4 4	15 CD 3.5	14 CrMo 4 5	1501-620 Gr. 27		2216	12ChM; 15ChM		A 182-F11; F12
			1.7337	16 CrMo 4 4	15 CD 4.5	14 CrMo 4 5	1501-620 Gr. 27		2216	15ChM		A 387 Gr. 12 Cl. 2
			1.7380	10 CrMo 9 10	10 CD 9.10	12 CrMo 9 10	1501-622 Gr. 31; 45		2218		J 21890	A 182-F22
			1.7709	21 CrMoV 5 7								
			1.7715	14 MoV 6 3			1503-660-440					
			1.7735	14 CrMoV 6 9	15 CDV 6							
	1.3 Spring steel	1.3.1 annealed (up to 250 HB)	1.0904	55 Si 7	55 S 7	55 Si 8	250 A 53		2085; 2090	55S2		9255
			1.0961	60 SiCr 7	60 SC 7	60 SiCr 8		SUP 7				9262
			1.1231	Ck 67	XC 68	C 70	060 A 67		1770	70	G 10700	1070
			1.1248	Ck 75	XC 75	C 75	060 A 78		1774; 1778	75	G 10780	1078; 1080
			1.1274	Ck 101	XC 100		060 A 96	SUP 4	1870		G 10950	1095
			1.2101	62 SiMnCr 4								
			1.2103	58 SiCr 8								
			1.7103	67 SiCr 5								
			1.7176	55 Cr 3	55 C 3	55 Cr 3	527 A 60	SUP 9 (A)	2253	50ChGA	G 51550	5155
			1.8159	50 CrV 4	50 CV 4	51 CrV 4	735 A 50	SUP 10	2230	50ChGFA	G 61500	6150
		1.3.2 naturally hard materials	1.0904	55 Si 7	55 S 7	55 Si 8	250 A 53		2085; 2090	55S2		9255
			1.0961	60 SiCr 7	60 SC 7	60 SiCr 8		SUP 7				9262
			1.1231	Ck 67	XC 68	C 70	060 A 67		1770	70	G 10700	1070
			1.1248	Ck 75	XC 75	C 75	060 A 78		1774; 1778	75	G 10780	1078; 1080
			1.1274	Ck 101	XC 100		060 A 96	SUP 4	1870		G 10950	1095
			1.2101	62 SiMnCr 4								
			1.2103	58 SiCr 8								
			1.7103	67 SiCr 5								
			1.7176	55 Cr 3	55 C 3	55 Cr 3	527 A 60	SUP 9 (A)	2253	50ChGA	G 51550	5155
			1.8159	50 CrV 4	50 CV 4	51 CrV 4	735 A 50	SUP 10	2230	50ChGFA	G 61500	6150
		1.3.3 hard materials for spring steel	1.0904	55 Si 7	55 S 7	55 Si 8	250 A 53		2085; 2090	55S2		9255
			1.0961	60 SiCr 7	60 SC 7	60 SiCr 8		SUP 7				9262
			1.1231	Ck 67	XC 68	C 70	060 A 67		1770	70	G 10700	1070
			1.1248	Ck 75	XC 75	C 75	060 A 78		1774; 1778	75	G 10780	1078; 1080
			1.1274	Ck 101	XC 100		060 A 96	SUP 4	1870		G 10950	1095