Material comparison table

Name of Metal	GB	ASTM	BS	JIS	NF	DIN
Aluminum& Aluminum Alloy	1A99	1199				A199.99R
	1A97					A199.98R
	1A95					
	1A80		1080(1A)	1080	1080A	A199.90
	1A50	1050	1050(1B)	1050	1050A	A199.50
	5A02	5052	NS4	5052	5052	A1Mg2.5
	5A03		NS5			
	5A05	5056	NB6	5056		A1Mg5
	5A30	5456	NG61	5556	5957	
	2A01	2036		2117	2117	AlCu2.5Mg0.5
	2A11		HF15	2017	2017S	AlCuMg1
	2A12	2124		2024	2024	AlCuMg2
	2B16	2319				
	2A80			2N01		
	2A90	2218		2018		
	2A14	2014		2014	2014	AlCuSiMn
	7A09	7175		7075	7075	AlZnMgCu1.5
	ZAlSi7Mn	356.2	LM25	AC4C		G-AlSi7Mg
	ZAlSi12	413.2	LM6	AC3A	A-S12-Y4	G-Al12
	ZAlSi5Cu1Mg	355.2				
	ZAlSi2Cu2Mg1	413		AC8A		G-Al12(Cu)
	ZAlCu5Mn					
	ZAlCu5MnCdVA	201				
	ZAlMg10	520.2	LM10		AG11	G-AlMg10
	ZAlMg5Si	520.2				G-AlMg5Si

Material comparison table

Name of Metal	GB	ASTM	EN		ISO	JIS	DIN	
copper& copper alloys	TU2	C10100	Cu-OFE	CW009A	Cu-OF	C1011	OF-Cu	2.004
	-	C10300	Cu-HCP	CW021A	-	-	SE-Cu	2.007
	-	C10300	Cu-PHC	CW020A	-	-	SE-Cu	2.007
	T2	C11000	Cu-ETP	CW004A	Cu-ETP	C1100	E-Cu58	2.0065
	TP2	C12200	Cu-DHP	CW024A	Cu-DHP	C1220	SF-Cu	2.009
	-	C12200	Cu-DHP	CW024A	Cu-DHP	C1220	SF-Cu	2.009
	-	C12200	Cu-DHP	CW024A	Cu-DLP	C1220	SF-Cu	2.009
	TP1	C12000	Cu-DLP	CW023A	Cu-DLP	C1201	SW-Cu	2.0076
	H96	C21000	CuZn5	CE500L	CuZn5	C2100	CuZn5	2.022
	H90	C22000	CuZn10	CW501L	CuZn10	C2200	CuZn10	2.023
	H85	C23000	CuZn15	CW502L	CuZn15	C2300	CuZn15	2.024
	H80	C24000	CuZn20	CW503L	CuZn20	C2400	CuZn20	2.025
	H70	C26000	CuZn30	CW505L	CuZn30	C2600	CuZn30	2.0265
	H68	C26800	CuZn33	CW506L	CuZn35	C2680	CuZn33	2.028
	H65	C27000	CuZn36	CW507L	CuZn35	C2700	CuZn36	2.0335
	H63	C27200	CuZn37	CW508L	CuZn37	C2720	CuZn37	2.0321
	HPb63-3	C34000	CuZn35Pb1	CW600N	CuZn35Pb1	C3501	CuZn36Pb1.5	2.0331
	HPb63-3	C34200	CuZn35Pb2	CW601N	CuZn34Pb2	-	CuZn36Pb1.5	2.0331
	H62	C28000	CuZn40	CW509N	CuZn40	C3712	CuZn40	2.036
	H60	C35000	CuZn38Pb2	CW608N	CuZn37Pb2	-	CuZn38Pb1.5	2.0371
	HPb63-3	C36000	CuZn36Pb3	CW603N	CuZn36Pb3	C3601	CuZn36Pb3	2.0375
	HPb59-1	C37700	CuZn39Pb2	CW612N	CuZn38Pb2	C3771	CuZn39Pb2	2.038
	HPb58-2.5	C38500	CuZn39Pb3	CW614N	CuZn39Pb3	C3603	CuZn39Pb3	2.0401
	-	C38000	CuZn40Pb2	CW617N	CuZn40Pb2	C3771	CuZn40Pb2	2.0402
	-	C68800	CuZn28Sn1As	CW706R	CuZn28Sn1	C4430	CuZn28Sn1	2.047
	-	C44300	CuZn31Si1	CW708R	CuZn31Si1	-	CuZn31Si1	2.049
	-	C68700	CuZn20Al2As	CW702R	CuZn20Al2	C6870	CuZn20Al2	2.046
	QSn4-0.3	C51100	CuSn4	CW450K	CuSn4	C5111	CuSn4	2.1016
	-	C51000	CuSn5	CW451K	CuSn5	C5102	CuSn5	2.1018
	QSn6.5-0.1	C51900	CuSn6	CW452K	CuSn6	C5191	CuSn6	2.102
	QSn8-0.3	C52100	CuSn8	CW453K	CuSn8	C5210	CuSn8	2.103
	BZn12-24	C75700	CuNi12Zn24	CW403J	CuNi12Zn24	-	CuNi12Zn24	2.073
	BZn12-26	C77000	CuNi18Zn27	CW410J	CuNi18Zn27	C7701	CuNi18Zn27	2.0742
	BZn18-18	C76400	CuNi18Zn20	CW409J	CuNi18Zn20	C7521	CuNi18Zn20	2.074
	-	C70600	CuNi10Fe1Mn	CW352H	CuNi10Fe1Mn	C7060	CuNi10Fe1Mn	2.0872
	-	C71500	CuNi30Mn1Fe	CW354H	CuNi30Mn1Fe	C7150	CuNi30Mn1Fe	2.882

Material comparison table

Name of Metal	GB	ASTM			BS	NF	ISO	JIS	DIN	SS14
stainless steel	1Cr17Mn6Ni5N	201	S20100	30201	—	—	A-2	SUS201	—	—
	1Cr18Mn8Ni5N	202	S20200	30202	284S16	Z15CNM19.08	A-3	SUS202	X8CrMnNi189	2357
	1Cr18Mn10Ni5Mo3N	—	—	—	—	—	—	—	—	—
	2Cr13Mn9Ni4	—	—	—	—	—	—	—	—	—
	1Cr17Ni7	301	S30100	30301	301S21	Z12CN17.07	14	SUS301	X12CrNi17.7	—
	1Cr17Ni8	—	—	—	—	—	—	SUS301J1	X12CrNi17.7	—
	1Cr18Ni9	302	S30200	30302	302S25	Z10CN18.09	12	SUS302	X12CrNi18.8	2331
	Y1Cr18Ni9	303	S30300	30303	303S21	Z10CNF18.09	17	SUS303	X12CrNiS18.8	2346
	Y1Cr18Ni9Se	303Se	S30323	30303Se	303S41	—	17	SUS303Se	—	—
	1Cr18Ni9Si3	302B	S30215	30302B	—	—	—	SUS302B	X12CrNiSi18.8	—
	0Cr18Ni9	304	S30400	30304	304S15	Z6CN18.09	11	SUS304	X5CrNi18.9	2332
										2333
	00Cr18Ni10	304L	S30403	30304L	304S12	Z2CN18.09	10	SUS304L	X2CrNi18.9	—
	0Cr19Ni9N	304N	S30451	—	—	—	—	SUS404N1	—	—
	0Cr19Ni10NbN	XM21	S30452	—	—	—	—	SUS304N2	X5CrNiNb18.9	—
	00Cr18Ni10N	304LN	S30453	—	304S62	Z2CN18.10	—	SUS304LN	X2CrNiN18.10	2371
						(Az)				
	1Cr18Ni12	305	S30500	30305	305S19	Z8CN18.12	13	SUS305	X5CrNi19.11	—
	0Cr18Ni12	—	—	—	—	Z8CN18.12	—	—	X5CrNi19.11	—
	0Cr23Ni13	309S	S30908	30309S	—	—	—	SUS309S	X7CrNi23.14	—
	0Cr25Ni20	310S	S31008	30310S	—	—	—	SUS310S	—	2361
	0Cr17Ni12Mo2	316	S31600	30316	316S16	Z6CND17.12	20,20a	SUS316	X5CrNiMo18.10	2347
	1Cr17Ni12Mo2	—	—	—	—	—	—	—	—	—
	0Cr18Ni12Mo2Ti	—	—	—	320S31	Z6CNDT17.12	—	—	X10CrNiMoTi18.10	2343
					320S17					-2350
	1Cr18Ni12Mo2Ti	—	—	—	—	Z8CNDT17.12	—	—	X10CrNiMoTi18.10	2350
	00Cr17Ni14Mo2	316L	S31603	30316L	316S12	Z2CND17.12	19,19a	SUS316L	X2CrNiMo18.10	2353
	0Cr17Ni12Mo2N	316N	S31651	—	—	—	—	SUS316N	—	—
	00Cr17Ni13Mo2N	316LN	S31653	—	316S61	Z2CND17.12	—	SUS316LN	X2CrNiMoN18.12	2375
						(AZ)				
	0Cr18Ni12Mo2Cu2	—	—	—	—	—	—	SUS316J1	—	—
	00Cr18Ni14Mo2Cu2	—	—	—	—	—	—	SUS316J11	—	—
	0Cr18Ni12Mo3Ti	—	—	—	—	Z6CNDT17.13	—	—	—	—
	1Cr18Ni12Mo3Ti	—	—	—	—	Z8CNDT17.13B	—	—	X10CrNiMoTi18.12	—
	0Cr19Ni13Mo3	317	S31700	30317	317S16	—	25	SUS317	X5CrNiMo17.13	—
	00Cr19Ni13Mo3	317L	S31703	—	317S12	Z2CND19.15	24	SUS317L	X2CrNiMo18.16	2367
	0Cr18Ni16Mo5	—	—	—	—	—	—	SUS317J1	—	—
	1Cr18Ni9Ti	321	S32100	30321	321S20	Z10CNT18.10	—	SUS321	X12CrNiTi18.9	2337
	0Cr18Ni10Ti	321	S32100	30321	321S12	Z6CNT18.11	15	SUS321	X10CrNiTi18.9	—
	1Cr18Ni11Ti	—	—	—	321S20	—	—	—	—	—
	0Cr18Ni11Nb	347	S34700	30347	347S17	Z6CNNb18.10	16	SUS347	X10CrNiNb18.9	2338
	1Cr18Ni11Nb	—	—	—	—	—	—	—	—	—
	0Cr18Ni9Cu3	XM7	S30430	—	—	Z6CNU18.10	D32	SUSXM7	—	—
	0Cr18Ni13Si4	XM15	S38100	—	—	—	—	SUSXM15J1	—	—
	0Cr26Ni5Mo2	329	S32900	—	—	—	—	SUS329J1	X8CrNiMo275	2324
	1Cr18Ni11Si4AlTi	—	—	—	—	—	—	—	—	—
	1Cr21Ni5Ti	—	—	—	—	—	—	—	—	—
	00Cr18Ni5Mo3Si2	—	—	—	—	—	—	—	—	—
	00Cr24Ni6Mo3N	—	—	—	—	—	—	—	—	—
	0Cr13A1	405	S40500	51405	405S17	Z6CA13	2	SUS405	X7CrAl13	2302
	00Cr12	—	—	—	—	—	—	SUS410L	—	—
	1Cr15	429	S42900	51429	—	—	—	SUS429	—	—
	00Cr17	—	—	—	—	—	—	SUS430LX	—	—
	1Cr17	430	S43000	51430	430S15	Z8C17	8	SUS430	X8Cr17	2320
	Y1Cr17	430F	S43020	51430F	—	Z10CF17	8a	SUS430F	X12CrMoS17	2383
	1Cr17Mo	434	S43400	51434	434S17	Z8CD17.01	9c	SUS434	X6CrMo17	2325
	00Cr17Mo	—	—	—	—	—	—	SUS436L	—	—
	00Cr18Mo2	18Cr2Mo	—	—	—	—	—	SUS444	—	—
	1Cr25Ti	446	S44600	51446	—	—	—	—	X8Cr28	2322
	00Cr27Mo	XM27	S44625	—	—	Z01CD26.1	—	SUSXM27	—	—
	00Cr30Mo2	—	S44700	—	—	—	—	SUS447J1	—	—
	1Cr12	403	S40300	51403	403S17	—	—	SUS403	—	2301
	0Cr13	410S	S41008	—	430S17	Z6C13	1	SUS410S	X7Cr13、X7Cr14	—
	1Cr13	410	S41000	51410	410S21	Z12C13	3	SUS410	X10Cr13	2302
	1Cr13Mo	—	—	—	—	—	—	SUS410J1	X15CrMo13	—
	Y1Cr13	416	S41600	51416	416S21	Z12CF13	7	SUS416	X12CrS13	2380
	2Cr13	420	S42000	51420	420S37	Z20C13	4	SUS420J1	X20Cr13	

Material comparison table

Name of Metal	GB	ASTM	BS	NF	ISO	JIS	DIN	ГОСТ
Carbon Steel	Q195	Cr.B Cr.C	040 A10 S185	S185	E235B	SS330 SPHC SPHD	S185	CT1КП CTIСП CTIПС
	Q215A	Cr.C Cr.58	040 A12		E235B	SS 330 SPHC		CT2КП—2 CT2СП—2
	Q235A	Cr.D	080A15			SS400 SM400A		CT3КП—2 CT3СП—2
	Q235B	Cr.D	S235JR S235JRGI	S235JR S235JRGI	E275A	SS400 SM400A	S235JR S235JRGI	CT3КП—3 CT3СП—3
	Q255A					SS400 SM400A		CT4КП—2 CT4СП—2
	Q275					SS490		CT5СП—2 CT5ПС—2
	08F	1008 1010	040A10	XCI0	C101	SPHD SPHE	CKI0	10
	10	1010	040A12	XCI2 Fe306B	C15E4	S10C S12C	CKI5 Fe360B	15
	15	1015	08M15	C22		S15C S17C	C22	20
	20	1020	IC22	C25	C25E4	S20C S22C	C25	25
	25	1025	IC25	C40	C40E4	S25C S28C	C40	40
	40	1040	IC40 080M40	C45	C45E4	S40C S43C	C45	45
	45	1045	IC45 080A47	C50	C50E4	S45C S48C	C50	50
	50	1050	IC50 080M50		—	S50C S53C	—	15r
	15Mn	1019	080A15	—	—	-	—	—
	T7(A)		060A67 060A72	C70E2U	TC70	SK7	C70W2	y7
	T8(A)	T72301 WIA—8	060A78 060A81	C80E2U	TC80	SK5 SK6	C80W1	y8
	T8Mn(A)		060A81	Y75		SK5	C85W	y8r
	T10(A)	T72301 W1A—91/2	1407	C105E2U	TCI05	SK3 SK4	C105W1	y10
	T11(A)	T72301 W1A—	1407	C105E2U	TCI05	SK3	C105W1	y11
	T12(A)	T72301 WIA—	1407	C120E3U	TCI20	SK2		y12
	CrI2	T30403(UNS)	BD3	X210CrI2	210CrI2	SKDI	X210CrI2	X12
	CrI2MoIVI	T30402(UNS)	BD2		160CrMoVI2	SKDII	X155CrVMo121	
	5CrMnMo							5ХГМ
	5CrNiMo	T61206(UNS)	BH224/5	55NiCrMoV7		SKT4	55NiCrMoV6	5ХНМ
	3Cr2W8V	T20821	BH21	X30WCrV9	30WCrV9	SKD5		3Х2В8Ф
	W18Cr4V	T12001(UNS) (T1)	BTI	HSI8-0-1	HSI8-0-1 (S1)	SKH2	—	P18
	W18Cr4VCo5	T12004(UNS) (T4)	BT4	HSI8-1-1-5	HSI8-1-1-5 (S7)	SKH3	S18-I-2-5	
	W6Mo5Cr4V2	T11302(UNS) (M2)	BM2	HS6-5-2	HS6-5-2 (S4)	SKH51	S6-5-2	p6M5
	1CrI8Ni9	S30200(UNS) (302)	302S31 302S25	Z12CNI8-09	12 10	SUS302	X10CrNis 18-9	12X18H9
	1CrI8Ni9Ti	S32100(UNS) (321)	X6CrNiTi 18-10	X6CrNiTi 18-10	X6CrNiTi1810 11	SUS321	X6CrNiTi 18-10	12X18H10T
	2CrI3	S42000(UNS) (420)	420S37 X20CrI3	X20CrI3	4	SUS420J1	X20CrI3	20X13
	40Mn	1043	080M40 1C40	C40	SL SM	SWRH42B	C40	40Г
	45Mn	1046	080M47 2C45	C45	SL SM	SWRH47B	C45	45Г
	65Mn	1065	317S16	—	SL SM TypeSC	—	—	65ГA
	Y12	1211 G12110(UN	S10M15	13MF4	10S20	SUM12 SUM21	10S20	A12
	Y12Pb	12L13			10SPb20 11SMnPb	SUM22L	10SPb20	
	Y20	1117 G11170(UN	C22 210M15	C22		SUM32	C22	A20
	Y40Mn	1144 G11440(UN	226M44	45MF6.3	44Mn28	SUM43		A40Г
	Y45Ca	1145	C45	C45			C45	—
	Y1CrI8Ni9	—	303S31 303S21	—	17	SUS303	X8CrNiSI8—9	—
	Q295A	Gr.42 Gr.A	E295	E295		SPFC490	E295	295
	Q295B	Gr.42 Gr.A	S275JR	S275JR		SPFC490	S275JR	295
	Q345C	Gr.50 Gr.A Gr.C, Gr.D	S335JO	S335JO	E355DD	SPFC590	S335JO	345
	Q345E	Type7 Gr.50	S355NL S355ML	S355NL S355ML	E355E E355DD	SPFC590	S355NL S355ML	—
	Q420B	Cr60 Gr.E	S420NL S420ML	S420NL S420ML	S420C E420CC	SEV295 SEV345	S420NL S420ML	—
	Q420C	Gr.B Type7	S420NL S420ML	S420NL S420ML	HS420D E420DD	SEV295 SEV345	S420NL S420ML	
	Q460D	Gr.65	S460NL S460ML	S460NL S460ML	E460DD F460E	SM570 SMA570W	S460NL S460ML	
	20Mn2	1524	0355GH	P0355GH	22Mn6	SMn420	P355GH	
	15Cr	5115	527A17			SCr415	17Cr3	15X
	20Cr	5120	590M17		20Cr4	SCr420	20Cr4	20x
	30Cr	5130	34Cr4	34Cr4	34Cr4	SCr430	34Cr4	30x
	40Cr	5140	41Cr4	41Cr4	4ICr4	SCr440	41Cr4	40x
	45Cr	5145	41Cr4	4ICr4	41Cr4	SCr445	4ICr4	45x
	30CrMo	4130	25CrMo4	25CrMo4	25CrMo4	SCM430	25CrMo4	30xM
	35CrMo	4317	34CrMo4	34CrMo4	34CrMo4	SCM435	34CrMo4	35xM
	42CrMo	4140	42CrMo4	42CrMo4	42CrMo4	SCM440	42CrMo4	38xM
	38CrMoAl		905M39		41CrAlMo74	SCM645	41CrAlMo7	38x2MIoA
	50CrVA	6150	51CrV4	51CrV4	51CrV4	SCPI0	5ICrV4	50xФA
	40CrMnMo	4140 4142	42CrMo4 708Mn40	42CrMo4	42CrMo4	SCM440	42CrM04	—
	85	1084		FMR86	TypeDC	SUP3	CK85	
	55Si2Mn	9260 H92600	251H60	56SC7	56SiCr7	SUP6 SUP7	55Si7	
	60Si2Mn	H92600	25H60	61SiCr7	61SiCr7	SUP6 SUP7	60SiCr7	
	55CrMnA	H51550 G51550	525A58 527A60	55Cr3	55Cr3	SUP9	55Cr3	
	60Si2CrVA							
	50CrVA	H51500 G61500	735A51	50CV4	5ICrV4	SUPI0	50CrV4	50xФA
	GCr9	51100				SUJI		
	GCrI5	52100		100Gr6	I	SUJ2	100Gr6	WXI5
	9CrI8Mo	440C		Z100CDI7	2I	SUS440C		
	35W250	36F320M	M250—35A	M250—35A		35A250	M250—35A	2413
	27QGII0	27P146M	M103—27P	M103—27P		27P110	M103—27P	3408