

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					
	ZAlCu5MnCdV A	201				
	ZAlMg10	520.2	LM10		AG11	G-AlMg10
ZAlMg5Si	520.2				G-AlMg5Si	

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Name of Metal	GB	ASTM	EN	ISO	JIS	DIN		
copper & copper alloys	TU2	C10100	Cu-OF	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

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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	X12CrNiS18.8	—	
	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	—	304S52	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	
	0Cr17Ni2Mo2	316	S31600	30316	316S16	Z6CND17.12	20.20a	SUS316	X5CrNiMo18.10	2347	
	1Cr17Ni2Mo2	—	—	—	—	—	—	—	—	—	
	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	316LN	S31651	—	—	—	—	SUS316N	—	—	
	00Cr17Ni13Mo2N	316LN	S31653	—	316S51	Z2CND17.12	—	SUS316LN	X2CrNiMoN18.12	2375	
		—	—	—	—	(AZ)	—	—	—	—	
	0Cr18Ni12Mo2Cu2	—	—	—	—	—	—	SUS316J1	—	—	
	0Cr18Ni12Mo3Ti	—	—	—	—	Z6CNDT17.13	—	—	—	—	
	1Cr18Ni12Mo3Ti	—	—	—	—	Z8CNDT17.13B	—	—	X10CrNiMoTi18.12	—	
	0Cr19Ni13Mo3	317	S31700	30317	317S16	—	25	SUS317	X5CrNiMo17.10	—	
	00Cr19Ni13Mo3	317L	S31703	—	317S12	Z2CND19.15	24	SUS317L	X2CrNiMo18.16	2367	
	0Cr18Ni9Ti	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	Z6CNb18.20	16	SUS347	X10CrNiNb18.9	2338	
	1Cr18Ni11Nb	—	—	—	—	—	—	—	—	—	
	0Cr18Ni9Cu3	XM7	S30430	—	—	Z6CNU18.10	D32	SUSXM7	—	—	
	0Cr18Ni13Si4	XM15	S38100	—	—	—	—	SUSXM15J1	—	—	
	0Cr26Ni5Mo4AlTi	329	S32900	—	—	—	—	SUS329J1	X8CrNiMo275	2324	
	1Cr21Ni5Ti	—	—	—	—	—	—	—	—	—	
	00Cr18Ni5Mo3Si2	—	—	—	—	—	—	—	—	—	
	00Cr24Ni6Mo3N	—	—	—	—	—	—	—	—	—	
	0Cr13Al	405	S40500	51405	405S17	Z6CA13	2	SUS405	X7CrAl13	2302	
	00Cr12	—	—	—	—	—	—	SUS410L	—	—	
	1Cr15	429	S42900	51429	—	—	—	SUS429	—	—	
	00Cr17	—	—	—	—	—	—	SUS430LX	—	—	
	1Cr17	430	S43000	51430	430S15	Z8Cr17	8	SUS430	X8Cr17	2320	
	Y1Cr17	430F	S43020	51430F	—	Z10CF17	8a	SUS430F	X12CrMoS17	2383	
	0Cr17Mo	434	S43400	51434	434S17	Z8CrD17.01	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	—	—	—	—	—	—	SUS410E	X15CrMo13	—	
	Y1Cr13	416	S41600	51416	416S21	Z12C13	7	SUS416	X12CrMo13	2380	
	2Cr13	420	S42000	51420	420S37	Z20C13	4	SUS420E	X20Cr13	—	

Material comparison table

Name of Metal	GB	ASTM	BS	NF	ISO	JIS	DIN	ROCT
Carbon Steel	Q195	Cr.B Cr.C	040 A10 S185	S185	E235B	SS330 SPHC SPHD	S185	CT1KP CT1CP CT1PC
	Q215A	Cr.C Cr.58	040 A12	—	E235B	SS 3		