Stainless Steels, Heat Resistant Steels

JIS		International standards	Foreign standards							Europe standard	
Standard No./name (stainless steel code)	JIS	ISO TR 15510 L·No.	USA		UK	Germany	France	Russia (former USSR)		EN	
			UNS	AISI	BS	DIN	NF	ГОСТ		Type	No.
JIS G 4303～	**SUS 201**	12	S20100	201			Z12CMN17−07Az		X12CrMnNiN17−7−5	1.4372
4305	**SUS 202**		S20200	202	284S16			12X17Г9AH4	X12CrMnNiN18−9−5	1.4373
Bars, hot rolled and	**SUS 301**	5	S30100	301	301S21	X12CrNi177	Z11CN17−08	07X16H6	X5CrNi17−7	1.4319
cold rolled plates,	**SUS 301L**	4				X2CrNiN18−7			X2CrNiN18−7	1.4318
sheets, and strips	**SUS 301J1**					X12CrNi177				
JIS G 4308～	**SUS 302**		S30200	302	302S25		Z12CN18−09	12X18H9		
4309	**SUS 302B**		S30215	302B						
Wires and rods	**SUS 303**	13	S30300	303	303S21	X10CrNiS189	Z8CNF18−09		X8CrNiS18−9	1.4305
	SUS 303Se		S30323	303Se	303S41			12X18H10E		
	SUS 303Cu									
JIS G 4313～	**SUS 304**	6	S30400	304	304S31	X5CrNi18 10	Z7CN18−09	08X18H10	X4CrNi18−10	1.4301
4315	**SUS 304L**	1	S30403	304L	304S11	X2CrNi19 11	Z3CN19−11	03X18H11	X2CrNi19−11	1.4307
		2								1.4307
Strips and wires for	**SUS 304N1**	10	S30451	304N			Z6CN19−09Az		X2CrNi18−9	1.4306
springs, wires for	**SUS 304N2**		S30452							
cold heading/forging	**SUS 304LN**	3	S30453	304LN		X2CrNiN18 10	Z3CN18−10Az		X2CrNiN18−10	1.4311
JIS G 4317～	**SUS 304J1**									
4320	**SUS 304J2**									
Hot rolled equal leg angles,	**SUS 304J3**		S30431	S30431						
cold finished bars,	**SUS 305**	8	S30500	305	305S19	X5CrNi18 12	Z8CN18−12	06X18H11	X4CrNi18−12	1.4303
blooms/billets for forgings,	**SUS 305J1**									
cold−formed sections	**SUS 309S**	X6CrNi23−14	S30908	309S			Z10CN24−13			
	SUS 310S	X6CrNi25−21	S31008	310S	310S31		Z8CN25−20	10X23H18	X6CrNi25−20	
	SUS 315J1									
	SUS 315J2									
	SUS 316	26	S31600	316	316S31	X5CrNiMo17 12 2	Z7CND17−12−02		X4CrNiMo17−12−2	1.4401
	SUS 316F	27				X5CrNiMo17 13 3	Z6CND18−12−03		X4CrNiMo17−13−3	1.4436
	SUS 316L	19	S31603	316L	316S11	X2CrNiMo17 13 2	Z3CND17−12−02		X2CrNiMo17−12−2	1.4404
		20				X2CrNiMo17 14 3	Z3CND17−13−03	03X17H14M3	X2CrNiMo17−13−3	1.4432
									X2CrNiMo18−14−3	1.4435
	SUS 316N		S31651	316N						
	SUS 316LN	22	S31653	316LN		X2CrNiMoN17 12 2	Z3CND17−11Az		X2CrNiMoN17−11−2	1.4406
		23				X2CrNiMoN17 13 3	Z3CND17−12Az		X2CrNiMoN17−13−3	1.4429
	SUS 316Ti	28	S31635			X6CrNiMoTi17 12 2	Z6CNDT17−12	08X17H13M2T	X6CrNiMoTi17−12−2	1.4571
	SUS 316J1									
	SUS 316J1L									
	SUS 317		S31700	317	317S16					
	SUS 317L	21	S31703	317L	317S12	X2CrNiMo18 16 4	Z3CND19−15−04		X2CrNiMo18−15−4	1.4438
	SUS 317LN	24	S31753				Z3CND19−14Az		X2CrNiMoN18−12−4	1.4434
	SUS 317J1								X2CrNiMoN17−13−5	1.4439
	SUS 317J2									
	SUS 317J3L									
	SUS 836L		N08367							
	SUS 890L	31	N08904	N08904	904S14		Z2NCDU25−20		X1CrNiMoCuN25−25−5	1.4539
	SUS 321	15	S32100	321	321S31	X6CrNiTi18 10	Z6CNT18−10	08X18H10T	X6CrNiTi18 10	1.4541
	SUS 347	17	S34700	347	347S31	X6CrNiNb18 10	Z6CNNb18−10	08X18H12Б	X6CrNiNb18 10	1.4550
	SUS 384	9	S38400	384			Z6CN18−16			
	SUS XM7	D26(1)	S30430	304Cu	394S17		Z2CNU18−10		X3CrNiCu18−9−4	1.4587
	SUS XM15J1		S38100				Z15CNS20−12		X1CrNiSi18−15−4	1.4381
	SUS 329J1		S32900	329						
	SUS 329J3L	33	S39240	S31803			Z3CNDU22−05Az	08X21H6M2T	X2CrNiMoN22−5−3	1.4462
	SUS 329J4L	34	S39275	S31260			Z3CNDU25−07Az		X2CrNiMoCuN25−6−3	1.4507
JIS G 4311～ 4315 Heat resisting steel bars, plates, and sheets	SUH 31					331S42		Z35CNWS14−14	45X14H14B2M		
	SUH 35	X53CrMnNi21 4 (2)				349S52		Z52CMN21−09Az			
	SUH 36		S63008			349S54	X53CrMnNi21 9	Z55CMN21−09Az	55X20Г9AH4		
	SUH 37		S63017			381S34					
	SUH 38										
	SUH 309		S30900	309	309S24			Z15CN24−13			
	SUH 310		S31000	310	310S24	CrNi2520		Z15CN25−20	20X25H20C2		
	SUH 330		N08330	N08330				Z12NCS35−16			
	SUH 660		S66286					Z6NCTV25−20			
	SUH 661		R30155								
	SUH 21						CrAl1205				
	SUH 409	37	S40900	409	409S19	X6CrTi12		Z6CT12			
	SUH 409L	36						Z3CT12		X2CrTi12	1.4512
	SUH 446	X15CrN26(2)	S44600	446				Z12C25	15X28		
	SUH 1	X45CrSi9−3(2)	S65007			401S45	X45CrSi9 3	Z45CS9			
	SUH 3							Z40CSD10	40X10C2M		
	SUH 4					443S65		Z80CSN20−02			
	SUH 11	X50CrSi18−2(2)							40X 9C2		
	SUH 600								20X12BHMБфг		
	SUH 616		S42200								

Notes: 1. ISO: ISO TR 15510: 1997. Symbols are the same as EN. (1) ISO 4954, (2) ISO 683−15.
2. US: UNS registration numbers and the AISI Steel Manual
3. Europe standard: EN10088−1:1995.
4. European countries: BS, DIN, NF, others. These national standards are to be abolished in favor of EN.
5. OCT: 5632.

Tool Steels

JIS		Steel types in foreign standards					
Standard No./name	Symbol	ISO	AISI ASTM	BS	DIN VDEh	NF	ГОСТ
JIS G 4401 Carbon tool steels	SK140 (formerly SK1)	TC140	—	—	—	C140E3U	Y13
	SK120 (formerly SK2)	TC120	W1−11½	—	—	C120E3U	Y12
	SK105 (formerly SK3)	TC105	W1−10	—	C105W1	C105E2U	Y11
	SK95 (formerly SK4)	TC 90	W1− 9	—	—	C 90E2U	Y10
	SK85 (formerly SK5)	TC 90 TC 80	W1− 8	—	C 80W1	C 90E2U C 80E2U	Y8Г Y9
	SK75 (formerly SK6)	TC 80 TC 70	—	—	C 80W1	C 80E2U C 70E2U	Y8
	SK65 (formerly SK7)	—	—	—	C 70W2	C 70E2U	Y7
JIS G 4403 High speed tool steels	SKH 2	HS18−0−1	T 1	BT 1	—	HS18−0−1	P18
	SKH 3	HS18−1−1−5	T 4	BT 4	S18−1−2−5	HS18−1−1−5	—
	SKH 4	HS18−0−1−10	T 5	BT 5	—	HS18−0−2−9	—
	SKH10	HS12−1−5−5	T15	BT15	S12−1−4−5	HS12−1−5−5	—
	SKH51	HS 6−5−2	M2	BM 2	S 6−5−2	HS 6−5−2	—
	SKH52	—	M3−1	—	—	—	—
	SKH53	HS 6−5−3	M3−2	—	S 6−5−3	HS 6−5−3	—
	SKH54	—	M4	BM 4	—	HS 6−5−4	—
	SKH55	HS 6−5−2−5	—	BM35	S 6−5−2−5	HS 6−5−2−5HC	P6M5K5
	SKH56	—	M36	—	—	—	—
	SKH57	HS10−4−3−10	—	BT42	S10−4−3−10	HS10−4−3−10	—
	SKH58	HS 2−9−2	M7	—	—	HS 2−9−2	—
	SKH59	HS 2−9−1−8	M42	BM42	S 2−10−1−8	HS 2−9−1−8	—
JIS G 4404 Alloy tool steels	SKS11	—	F2	—	—	—	XB4
	SKS 2	105WCr1	—	—	105WCr6	105WCr5	XBГ
	SKS21	—	—	—	—	—	—
	SKS 5	—	—	—	—	—	—
	SKS51	—	L6	—	—	—	—
	SKS 7	—	—	—	—	—	—
	SKS 8	—	—	—	—	C140E3UCr4	13X
	SKS 4	—	—	—	—	—	—
	SKS41	—	—	—	—	—	—
	SKS43	TCV105	W2−9½	BW2	—	100V2	—
	SKS44	—	W2−8	—	—	—	—
	SKS 3	—	—	—	—	—	9XBГ
	SKS31	105WCr1	—	—	105WCr6	105WCr5	XBГ
	SKS93	—	—	—	—	—	—
	SKS94	—	—	—	—	—	—
	SKS95	—	—	—	—	—	—
	SKD 1	210Cr12	D3	BD3	X210Cr12	X200Cr12	X12
	SKD11	—	D2	BD2	—	X160CrMoV12	—
	SKD12	100CrMoV5	A2	BA2	—	X100CrMoV5	—
	SKD 4	30WCrV5	—	—	—	X32WCrV3	—
	SKD 5	30WCrV9	H21	BH21	—	X30WCrV9	—
	SKD 6	—	H11	BH11	X38CrMoV51	X38CrMoV5	4X5M C
	SKD61	40CrMoV5	H13	BH13	X40CrMoV51	X40CrMoV5	4X5M 1C
	SKD62	—	H12	BH12	—	X35CrWMoV5	3X3M3
JIS G 4404 (Continued)	SKD 7	30CrMoV3	H10	BH10	X32CrMoV33	32CrMoV12−18	—
	SKD 8	—	H19	BH19	—	—	—
	SKT 3	—	—	—	—	55CrNiMoV4	—
	SKT 4	55NiCrMoV2	—	BH224/5	55NiCrMoV6	55NiCrMoV7	5XHM

Special Purpose Steels

JIS		Steel types in foreign standards					
Standard No./name	Symbol	ISO	AISI SAE	BS	DIN	NF	ГОСТ
JIS G 4801 Spring steels	**SUP 3**	—	1075 1078	—	—	—	75 80 85
	SUP 6	59Si7	—	—	—	60Si7	60C2
	SUP 7	59Si7	9260	—	—	60Si7	60C2Г
	SUP 9	55Cr3	5155	—	55Cr3	55Cr3	—
	SUP 9A	—	5160	—	—	60Cr3	—
	SUP10	51CrV4	6150	735A51,735H51	50CrV4	51CrV4	XфA50ХГфA
	SUP11A	60CrB3	51B60	—	—	—	50ХГР
	SUP12	55SiCr63	9254	685A57,685H57	54SiCr6	54SiCr6	—
	SUP13	60CrMo33	4161	705A60,705H60	—	60CrMo4	—
JIS G 4804 Free cutting carbon steels	**SUM11**	—	1110	—	—	—	—
	SUM12	—	1108	—	—	—	—
	SUM21	9 S20	1212	—	—	—	—
	SUM22	11SMn28	1213	(230M07)	9 SMn28	S250	—
	SUM22L	11SMnPb28	12L13	—	9 SMnPb28	S250Pb	—
	SUM23	—	1215	—	—	—	—
	SUM23L	—	—	—	—	—	—
	SUM24L	11SMnPb28	12L14	—	9 SMnPb28	S250Pb	—
	SUM25	12SMn35	—	—	9 SMn36	S300	—
	SUM31	—	1117	—	15S10	—	—
	SUM31L	—	—	—	—	—	—
	SUM32	—	—	210M15,210A15	—	(13MF4)	—
	SUM41	—	1137	—	—	(35MF6)	—
	SUM42	—	1141	—	—	(45MF6.1)	—
	SUM43	44SMn28	1144	(226M44)	—	(45MF6.3)	—
JIS G 4805 High carbon chromium bearing steels	**SUJ 1**	—	51100	—	—	—	—
	SUJ 2	B1 or 100Cr6	52100	—	100Cr6	100Cr6	ЩХ15
	SUJ 3	B2 or 100CrMnSi4−4	ASTM A 485 Grade 1	—	—	—	—
	SUJ 4	—	—	—	—	—	—
	SUJ 5	—	—	—	—	—	—