MARYLAND METRICS
phones: (410) 358-3130 (800) 638-1830
faxes: (410) 358-3142 (800) 872-9329
P.O. Box 261 Owings Mills, MD 21117 USA
6119 Oakleaf Avenue Baltimore, MD 21215 USA

Maryland Metrics: Technical Data Chart
INTERNATIONAL STANDARDS CONVERSION TABLE FOR STAINLESS STEEL

Including Chemical Composition & Mechanical Properties

This data chart is also available for downloading as a viewable/printable Acrobat PDF file.

U.S.A.	GERMANY	GERMANY	FRANCE	JAPAN	ITALY	SWEDEN	U.K.	E.U.	SPAIN	RUSSIA
AISI	DIN 17006	W.N. 17007	AFNOR	JIS	UNI	SIS	BSI	EURONORM	UNE	GOST
201				SUS 201						
301	X 12 CrNi 17 7	1.4310	Z 12 CN 17-07	SUS 301	X 12 CrNi 1707	23 31	301S21	X 12 CrNi 17 7	X 12 CrNi 17-07	
302	X 5 CrNi 18 7	1.4319	Z 10 CN 18-09	SUS 302	X 10 CrNi 1809	23 31	302S25	X 10 CrNi 18 9	X 10 CrNi 18-09	12KH18N9
303	X 10 CrNiS 18 9	1.4305	Z 10 CNF 18-09	SUS 303	X 10 CrNiS 1809	23 46	303S21	X 10 CrNiS 18 9	X 10 CrNiS 18-09	
303 Se			Z 10 CNF 18-09	SUS 303 Se	X 10 CrNiS 1809		303S41		X 10 CrNiS 18-09	12KH18N10E
304	X 5 CrNi 18 10 X 5 CrNi 18 12	1.4301 1.4303	Z 6 CN 18-09	SUS 304	X 5 CrNi 1810	23 32	304S15 304S16	X 6 CrNi 18 10	X 6 CrNi 19-10	08KH18N10 06KH18N11
304 N				SUS 304N1	X 5 CrNiN 1810					
304 H				SUS F 304H	X 8 CrNi 1910				X 6 CrNi 19-10	
304 L	X 2 CrNi 18 11	1.4306	Z 2 CN 18-10	SUS 304L	X 2 CrNi 1911	23 52	304S11	X 3 CrNi 18 10	X 2 CrNi 19-10	03KH18N11
	X 2 CrNiN 18 10	1.4311	Z 2 CN 18-10-Az	SUS 304LN	X 2 CrNiN 1811	23 71				
305			Z 8 CN 18-12	SUS 305	X 8 CrNi 1812	23 33	305S19	X 8 CrNi 18 12	X 8 CrNi 18-12	
			Z 6 CNU 18-10	SUS XM7				X 6 CrNiCu 18 10 4 Kd		
309	X 15 CrNiS 20 12	1.4828	Z 15 CN 24-13	SUH 309	X 16 CrNi 2314		309S24	X 15 CrNi 23 13		
309 S				SUS 309S	X 6 CrNi 2314			X 6 CrNi 22 13		
310	X 12 CrNi 25 21	1.4845		SUH 310	X 22 CrNi 2520		310S24			20KH23N18
310 S	X 12 CrNi 25 20	1.4842	Z 12 CN 25-20	SUS 310S	X 5 CrNi 2520	23 61		X 6 CrNi 25 20		10KH23N18
314	X 15 CrNiSi 25 20	1.4841	Z 12 CNS 25-20		X 16 CrNiSi 2520			X 15 CrNiSi 25 20		20KH25N20S2
316	X 5 CrNiMo 17 12 2	1.4401	Z 6 CND 17-11	SUS 316	X 5 CrNiMo 1712	23 47	316S31	X 6 CrNiMo 17 12 2	X 6 CrNiMo 17-12-03	
316	X 5 CrNiMo 17 13 3	1.4436	Z 6 CND 17-12	SUS 316	X 5 CrNiMo 1713	23 43	316S33	X 6 CrNiMo 17 13 3	X 6 CrNiMo 17-12-03	
316 F	X 12 CrNiMoS 18 11	1.4427								
316 N				SUS 316N						
316 H				SUS F 316H	X 8 CrNiMo 1712				X 5 CrNiMo 17-12	
316 H					X 8 CrNiMo 1713				X 6 CrNiMo 17-12-03	
316 L	X 2 CrNiMo 17 13 2	1.4404	Z 2 CND 17-12	SUS 316L	X 2 CrNiMo 1712	23 48	316S11	X 3 CrNiMo 17 12 2	X 2 CrNiMo 17-12-03	03KH17N14M2
	X 2 CrNiMoN 17 12 2	1.4406	Z 2 CND 17-12-Az	SUS 316LN	X 2 CrNiMoN 1712					
316 L	X 2 CrNiMo 18 14 3	1.4435	Z 2 CND 17-13		X 2 CrNiMo 1713	23 53	316S13	X 3 CrNiMo 17 13 3	X 2 CrNiMo 17-12-03	03KH16N15M3
	X 2 CrNiMoN 17 13 3	1.4429	Z 2 CND 17-13-Az		X 2 CrNiMoN 1713	23 75				
	X 6 CrNiMoTi 17 12 2	1.4571	Z6 CNDT 17-12		X 6 CrNiMoTi 1712	23 50	320S31	X 6 CrNiMoTi 17 12 2	X 6 CrNiMoTi 17-12-03	08KH17N13M2T 10KH17N13M2T
	X 10 CrNiMoTi 18 12	1.4573			X 6 CrNiMoTi 1713		320S33	X 6 CrNiMoTI 17 13 3	X 6 CrNiMoTi 17-12-03	08KH17N13M2T 10KH17N13M2T
	X 6 CrNiMoNb 17 12 2	1.4580	Z 6 CNDNb 17-12		X 6 CrNiMoNb 1712			X 6 CrNiMoNb 17 12 2		08KH16N13M2B
	X 10 CrNiMoNb 18 12	1.4583			X 6 CrNiMoNb 1713			X 6 CrNiMoNb 17 13 3		09KH16N15M3B
317				SUS 317	X 5 CrNiMo 1815	23 66	317S16			
317 L	X 2 CrNiMo 18 16 4	1.4438	Z 2 CND 19-15	SUS 317L	X 2 CrNiMo 1815	23 67	317S12	X 3 CrNiMo 18 16 4		
317 L	X 2 CrNiMo 18 16 4	1.4438	Z 2 CND 19-15	SUS 317L	X 2 CrNiMo 1816	23 67	317S12	X 3 CrNiMo 18 16 4		
330	X 12 NiCrSi 36 16	1.4864	Z 12NCS 35-16	SUH 330						
321	X 6 CrNiTi 18 10 X 12 CrNiTi 18 9	1.4541 1.4878	Z 6 CNT 18-10	SUS 321	X 6 CrNiTi 1811	23 37	321S31	X 6 CrNiTi 18 10	X 6 CrNiTi 18-11	08KH18N10T
321 H				SUS 321H	X 8 CrNiTi 1811		321S20		X 7 CrNiTi 18-11	12KH18N10T
329	X 8 CrNiMo 27 5	1.4460		SUS 329J1		23 24				
347	X 6 CrNiNb 18 10	1.4550	Z 6 CNNb 18-10	SUS 347	X 6 CrNiNb 1811	23 38	347S31	X 6 CrNiNb 18 10	X 6 CrNiNb 18-11	08KH18N12B
347 H				SUS F 347H	X 8 CrNiNb 1811				X 7 CrNiNb 18-11	
904L		1.4939	Z 12 CNDV 12-02							
	X 20 CrNiSi 25 4	1.4821								
UNS31803	X 2 CrNiMoN 22 5	1.4462								
UNS32760	X 3 CrNiMoN 25 7	1.4501	Z 3 CND 25-06Az							
403	X 6 Cr 13 X 10 Cr 13 X 15 Cr 13	1.4000 1.4006 1.4024	Z 12 C 13	SUS 403	X 12 Cr 13	23 02	403S17	X 10 Cr 13 X 12 Cr 13	X 6 Cr 13	12Kh13
405	X 6 CrAl 13	1.4002	Z 6 CA 13	SUS 405	X 6 CrAl 13		405S17	X 6 CrAl 13	X 6 CrAl 13	
	X 10 CrAl 7	1.4713	Z 8 CA 7					X 10 CrAl 7		
	X 10 CrAl 13	1.4724			X 10 CrAl 12					10Kh13SYu
	X 10 CrAl 18	1.4742						X 10 CrSiAl 18		15Kh18SYu
409	X 6 CrTi 12	1.4512	Z 6 CT 12	SUH 409	X 6 CrTi 12		409S19	X 5 CrTi 12		
					X 2 CrTi 12					
410	X 6 Cr 13 X 10 Cr 13 X 15 Cr 13	1.4000 1.4006 1.4024	Z 10 C 13 Z 12 C 13	SUS 410	X 12 Cr 13	23 02	410S21	X 12 Cr 13	X 12 Cr 13	12Kh13
410 S	X 6 Cr 13	1.4000	Z 6 C 13	SUS 410S	X 6 Cr 13	23 01	403S17	X 6 Cr 13		08Kh13
414										

These are austenitic grades
These are ferritic grades
These are ferritic-austenitic grades (otherwise known as Duplex and Superduplex)

Chemical Composition

Standard of Country					Chemical Composition							
USA	German		UK	Japan								
AISI	W-Nr	DIN KURZNAME	BS	JIS	C Max	SI Max	Mn Max	P max	S Max	Ni	Cr	Mo
301	14310	X12Cr Ni 177	301S21	SUS 301	0.15	1	2	0.045	0.03	6.00-8.00	16.00-18.00	-
304	14301	XDCr Ni 189	304S16	SUS304	0.08	1	2	0.045	0.03	8.00-10.50	18.00-20.00	-
304L	14306	X3Cr Ni 89	304S12	SUS 304L	0.03	1	2	0.045	0.03	9.00-13.00	18.00-20.00	-
305	14303	X5Cr Ni 1911	305S19	SUS 305	0.12	1	2	0.045	0.03	10.50-13.00	17.00-19.00	-
310S	14841	X 15 Cr Ni Si 2520	310S24	SUS 310S	0.08	1.5	2	0.045	0.03	19.00-22.00	24.00-26.00	-
316	14401	X15 Cr Ni Mo 1810	306S16	SUS 316	0.08	1	2	0.045	0.03	10.00-14.00	16.00-18.00	2.00-3.00
316L	14435	X15 Cr Ni Mo 1812	306S12	SUS 316 L	0.03	1	2	0.045	0.03	12.00-15.00	16.00-18.00	2.00-3.00
430	14016	X8Cr 17	430S17	SUS 430	0.12	0.75	1	0.04	0.03	0.6	16.00-18.00	-
434	14113	-	-	SUS 434	0.12	1	1	0.04	0.03	0.6	16.00-18.00	0.75-1.25
410	14006	X10 Cr 13	410S21	SUS 410	0.15	1	1	0.04	0.03	0.6	11.50-13.50	-
420	14021	X 20 Cr 13	420S29	SUS 420 J1	0.16-0.25	1	1	0.04	0.03	0.6	12.00-14.00	-
420	14034	X 40 Cr 13	420S45	SUS 420 J2	0.26 - 0.40	1	1	0.04	0.03	0.6	12.00-14.00	-

Mechanical Properties

USA	German		UK	Japan	Tensile test (min)				Hardness (Max)			
					Y/S		T/S					
AISI	W-Nr	DIN KURZNAME	BS	JIS	kg/mm2	N/mm2	kgf/mm2	N/mm2	Elongation	HB	HRB	Hv
301	14310	X12Cr Ni 177	301S21	SUS 301	21	206	53	520	40	187	90	200
304	14301	XDCr Ni 189	304S16	SUS304	21	206	53	520	40	187	90	200
304L	14306	X3Cr Ni 89	304S12	SUS 304L	18	177	49	481	40	187	90	200
305	14303	X5Cr Ni 1911	305S19	SUS 305	18	177	49	481	40	187	90	200
310S	14841	X 15 Cr Ni Si 2520	310S24	SUS 310S	21	206	53	520	40	187	90	200
316	14401	X15 Cr Ni Mo 1810	306S16	SUS 316	21	206	53	520	40	187	90	200
316L	14435	X15 Cr Ni Mo 1812	306S12	SUS 316 L	18	177	49	481	40	187	90	200
430	14016	X8Cr 17	430S17	SUS 430	21	206	46	451	22	183	88	200
434	14113	-	-	SUS 434	21	206	46	451	22	183	88	200
410	14006	X10 Cr 13	410S21	SUS 410	21	206	45	441	20	200	93	210
420	14021	X 20 Cr 13	420S29	SUS 420 J1	23	226	53	520	18	223	97	234
420	14034	X 40 Cr 13	420S45	SUS 420 J2	23	226	55	539	18	235	99	247

Phones: (800) 638-1830 or (410) 358-3130 are available Monday-Friday 8:30 AM to 5:30 PM Eastern time.
Faxes: (800) 872-9329 or (410) 358-3142 & E-mail are available anytime.
Warehouse & showroom hours are Monday-Friday 10 AM to 5:30 PM.
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