

STAINLESS STEEL CASTING MATERIAL PROPERTIES TABLE

Grade	Chemical Composition								Other	Mechanical . min					Hardness Max.		
	AISI	C	Si	Mn	P (max)	S (max)	Ni	Cr		Mo	Tensile Strength min. Ksi (Mpa)	Yield Point min Ksi (Mpa)	Full section Specimen	Strip Specimen	Round Specimen	Brinell	Rockwell
304	<=0.08	<=0.75	<=2.00	0.04	0.03	8.00-11.00	18.00-20.00	-	-	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90
304 H	0.04-0.10	<=0.75	<=2.00	0.04	0.03	8.00-11.00	18.00-20.00	-	-	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90
304 L	<=0.035	<=0.75	<=2.00	0.04	0.03	8.00-13.00	18.00-20.00	-	-	70(485)	25(170)	35	35	56(+17.50)	28	192	B 90
304 N	<=0.08	<=0.75	<=2.00	0.04	0.03	8.00-11.00	18.00-20.00	-	N: 0.10-0.16	80(550)	35(240)	35	35	56(+17.50)	28	192	B 90
304 LN	<=0.035	<=0.75	<=2.00	0.04	0.03	8.00-11.00	18.00-20.00	-	N: 0.10-0.16	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90
309	<=0.15	<=0.75	<=2.00	0.04	0.03	19.00-22.00	24.00-26.00	-	-	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90
310	<=0.15	<=0.75	<=2.00	0.04	0.03	19.00-22.00	24.00-26.00	-	-	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90
316	<=0.08	<=0.75	<=2.00	0.04	0.03	11.00-14.00	16.00-18.00	2.00-3.00	-	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90
316 H	0.04-0.10	<=0.75	<=2.00	0.04	0.03	11.00-14.00	16.00-18.00	2.00-3.00	-	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90
316 L	<=0.035	<=0.75	<=2.00	0.04	0.03	10.00-15.00	16.00-18.00	2.00-3.00	-	70(485)	25(170)	35	35	56(+17.50)	28	192	B 90
316 LN	<=0.08	<=0.75	<=2.00	0.04	0.03	11.00-14.00	16.00-18.00	2.00-3.00	N: 0.10-0.16	80(550)	35(240)	35	35	56(+17.50)	28	192	B 90
317	<=0.08	<=0.75	<=2.00	0.04	0.03	10.00-15.00	16.00-18.00	2.00-3.00	-	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90
321	<=0.08	<=0.75	<=2.00	0.04	0.03	9.00-13.00	17.00-20.00	-	Ti: 5xC% - 0.70 B	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90
321 H	0.04-0.10	<=0.75	<=2.00	0.04	0.03	9.00-13.00	17.00-20.00	-	Ti: 4xC% - 0.60	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90
347	<=0.08	<=0.75	<=2.00	0.04	0.03	9.00-13.00	17.00-20.00	-	Nb + Ta: 10 x C% - 1.00	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90
347 H	0.04-0.10	<=0.75	<=2.00	0.04	0.03	9.00-13.00	17.00-20.00	-	Nb + Ta: 8 x C% - 1.0	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90
405	<=0.08	<=0.75	<=2.00	0.04	0.03	<=0.50	11.5-13.5	-	-	60(415)	30(205)	20	20	"2	-	207	B 95
410	<=0.15	<=0.75	<=1.00	0.04	0.03	<=0.50	11.5-13.5	-	-	60(415)	30(205)	20	20	"2	-	207	B 95
429	<=0.12	<=0.75	<=1.00	0.04	0.03	<=0.50	14.00-16.00	-	-	60(415)	35(240)	20	20	"2	-	190	B 90
430	<=0.12	<=0.75	<=1.00	0.04	0.03	<=0.50	16.00-18.00	-	-	60(415)	35(240)	20	20	"2	-	190	B 90
443	<=0.20	<=0.75	<=1.00	0.04	0.03	<=0.50	18.00-20.00	-	Cu: 0.90-1.25	70(485)	40(275)	20	20	"2	-	207	B 95
445	<=0.20	<=0.75	<=1.50	0.04	0.03	<=0.50	23.00-30.00	-	N: 0.10-0.25	70(485)	40(275)	18	18	"2	-	207	B 95
329	<=0.089	<=0.75	<=1.00	0.04	0.03	2.50-5.00	23.00-28.00	1.00-2.0	-	90(621)	70(483)	20	20	"2	-	171	C 28
409	<=0.089	<=1.00	<=1.00	0.045	0.05	<=0.50	10.50-11.75	-	Ti: 6xC% - 0.75	55(38)	30(205)	20	20	"2	-	207	B 95
XM-8	<=0.07	<=1.00	<=1.00	0.04	0.03	<=0.50	17.00-19.00	-	Al: <=0.15	60(415)	30(205)	20	20	"2	-	190	B 90
316 Tl	<=0.08	<=0.75	<=2.00	0.04	0.03	11.00-14.00	16.00-18.00	2.00-3.00	Ti: 12xC% - 1.10 Ti: 5xC% - 0.75	75(515)	30(205)	35	35	56(+17.50)	28	192	B 90

STAINLESS STEEL CASTING MATERIAL PROPERTIES TABLE

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	1.4301		SUS 304	X 5 CrNi 1810	23 32	304S15	X 6 CrNi 18 10	X 6 CrNi 19-10	08KH18N10
	X 5 CrNi 18 12	1.4303	Z 6 CN 18-09				304S16			08KH18N11
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
304 L N	X 2 CrNiN 18 10	1.4311	Z 2 CN 18-10-A2	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	
305			Z 6 CrNi 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 8 CrNi 2314			X 8 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 81		X 8 CrNi 25 20		10KH23N18
314	X 15 CrNiS 25 20	1.4841	Z 12 CrNiS 25-20		X 18 CrNiS 2520			X 15 CrNiS 25 20		20KH25N20S2
316	X 5 CrNiMo 17 12 2	1.4401	Z 6 CrNi 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 CrNi 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 CrNi 17-12	SUS 316L	X 2 CrNiMo 1712	23 48	316S11	X 3 CrNiMo 17 12 2	X 2 CrNiMo 17-12-03	03KH17N14M2
316 L										
316 L	X 2 CrNiMoN 17 12 2	1.4406	Z 2 CrNi 17-12-A2	SUS 316LN	X 2 CrNiMoN 1712					
316 L	X 2 CrNiMo 18 14 3	1.4435	Z 2 CrNi 17-13		X 2 CrNiMo 1713	23 53	316S13	X 3 CrNiMo 17 13 3	X 2 CrNiMo 17-12-03	03KH18N15M3
316 L	X 2 CrNiMoN 17 13 3	1.4429	Z 2 CrNi 17-13-A2		X 2 CrNiMoN 1713	23 75				
316 L	X 6 CrNiMoTi 17 12 2	1.4571	Z 6 CrNiTi 17-12		X 6 CrNiMoTi 1712	23 50	320S31	X 6 CrNiMoTi 17 12 2	X 6 CrNiMoTi 17-12-03	08KH17N13M2T 10KH17N13M2T
316 L	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
316 L	X 6 CrNiMoNb 17 12 2	1.4580	Z 6 CrNiNb 17-12		X 6 CrNiMoNb 1712			X 6 CrNiMoNb 17 12 2		08KH18N13M2B
316 L	X 10 CrNiMoNb 18 12	1.4583			X 6 CrNiMoNb 1713			X 6 CrNiMoNb 17 13 3		08KH18N15M3B

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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
317				SUS 317	X 5 CrNiMo 1815	23 86	317S16			
317 L	X 2 CrNiMo 18 16 4	1,4438	Z 2 CND 19-15	SUS 317L	X 2 CrNiMo 1815	23 87	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 87	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	1,4541	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
	X 12 CrNiTi 18 9	1,4878								
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 CrNiNb 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 CrNiCu 12-02							
904 L	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	1,4000	Z 12 C 13	SUS 403	X 12 Cr 13	23 02	403S17	X 10 Cr 13	X 6 Cr 13	12Kh13
	X 10 Cr 13	1,4006						X 12 Cr 13		
	X 15 Cr 13	1,4024								
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	
405	X 10 CrAl 7	1,4713	Z 8 CA 7					X 10 CrAl 7		
405	X 10 CrAl 13	1,4724			X 10 CrAl 12					10Kh13SYu
405	X 10 CrAl 18	1,4742						X 10 CrSiAl 18		15Kh18SYu
405										
409	X 6 CrTi 12	1,4512	Z 6 CT 12	SUH 409	X 6 CrTi 12		409S19	X 5 CrTi 12		
409					X 2 CrTi 12					
410	X 6 Cr 13	1,4000	Z 10 C 13	SUS 410	X 12 Cr 13	23 02	410S21	X 12 Cr 13	X 12 Cr 13	12Kh13
	X 10 Cr 13	1,4006	Z 12 C 13							
	X 15 Cr 13	1,4024								
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