

2007 Stainless Steel Grades



		NOMINAL CHEMICAL COMPOSITION, WT. PCT.*								OTHER DESIGNATION SYSTEMS				WELDING CONSUMABLE	
	Steel Name	ASTM	UNS No.	C	N	Cr	Ni	Mo	Other	EN	DIN	SS	BS		
General Service and Wet Corrosion	Austenitic	201	201	S20100	0.05	0.15	17	5	—	Mn	1.4372	—	—	284S16	—
		XM-19	S20910	S20910	0.05	0.30	22	13	2	Mn, Cb, V	—	—	—	—	P12
		301	301	S30100	0.10	0.04	17	7	—	—	1.4310	1.4310	2331	301S21	308
		302	302	S30200	0.07	0.06	17	8	—	—	1.4319	1.4319	2332	302S31	—
		303, 303 HST	303	S30300	0.06	0.05	17.5	8.1	—	S	1.4305	1.4305	2346	303S31	—
		304	304	S30400	0.04	0.06	18.2	8.1	—	—	1.4301	1.4301	2333	304S31	308
		304L	304L	S30403	0.02	0.06	18.2	8.2	—	—	1.4306	1.4306	2352	304S11	308L
		304LN	304LN	S30453	0.02	0.14	18.2	8.5	—	—	1.4311	1.4311	2371	304S61	308L, 2304
		304N	304N	S30451	0.04	0.14	18.5	8.5	—	—	1.6907	1.6907	—	304S71	308L, 2304
		305	305	S30500	0.02	0.02	18	11.5	—	—	1.4303	1.4303	—	305S19	309L, 312
		308	S30880	S30880	0.08	—	19.5-22.0	9.0-11.0	0.75	0.30-0.65Si	1.4303	1.4303	—	—	—
		308L	308L	S30883	0.02	0.05	20	11	—	—	19 9 L	—	—	—	NA
		308LSi	S30880	S30880	0.03	—	19.5-22.0	9.0-11.0	0.50	0.65-1.00Si	19 9 LSi	—	—	—	NA
		316	316	S31600	0.04	0.04	16.8	10.7	2	—	1.4401	1.4401	2347	316S31	316L
		316	316	S31600	0.04	0.06	17	11	2.8	—	1.4436	1.4436	2343	316S33	316L
		316H	S31609	S31609	0.04-0.10	—	16.0-18.0	10.0-14.0	2.0-3.0	—	1.4401/1.4919	—	—	—	—
		316L	316L	S31603	0.02	0.06	16.2	10.2	2	—	1.4404	1.4404	2348	316S11	316L
		316L	316L	S31603	0.02	0.06	16.2	10.2	2.8	—	1.4432	1.4432	2353	316S13	316L
		316LN	316LN	S31653	0.02	0.14	16.2	10.2	2	—	1.4406	1.4406	—	316S61	316L
		316Ti	316Ti	S31635	0.04	0.01	17	11	2	Ti	1.4571	1.4571	2350	320S31	318, 316L
		317L	317L	S31703	0.02	0.08	18.3	11.5	3	—	1.4438	1.4438	2367	317S12	317L
		317LM	317LM	S31725	0.02	0.08	19.3	13.7	4.3	—	1.4439	1.4439	—	—	P12
		317LMN	317LMN	S31726	0.02	0.14	19.3	13.7	4.3	—	1.4439	1.4439	—	—	P12
		321	321	S32100	0.04	0.01	17.3	9.2	—	Ti	1.4541	1.4541	2337	321S31	347
		347	347	S34700	0.04	0.04	17.3	9.1	—	Cb	1.4550	—	2338	347S31	347
		Alloy 20	N08020	N08020	0.01	0.06	20	33	2	Cu, Cb	—	—	—	—	320/320LR
		904L	N08904	N08904	0.01	0.06	20	25	4.5	Cu	1.4539	1.4539	2562	904S13	P12, 904L
		254 SMO	S31254	S31254	0.01	0.20	20	18	6.1	Cu	1.4547	—	2378	—	P12, P16
		654 SMO	S32654	S32654	0.01	0.50	24	22	7.3	Mn, Cu	1.4652	—	—	—	P16
		Duplex	LDX 2101	S32101	S32101	0.03	0.22	21.5	1.5	0.3	Mn	1.4162	—	—	—
SAF 2304	2304		S32304	0.02	0.10	23	4.8	0.3	—	1.4362	1.4362	2327	—	2209, 2304	
2205 Code Plus Two	2205		S32205/S31803	0.02	0.17	22	5.5	3	—	1.4462	1.4462	2377	318S13	2209	
SAF 2507	2507		S32750	0.02	0.27	25	7	4	—	1.4410	—	2328	—	P100.5	
Other	410	410	S41000	0.12	—	12	—	—	—	1.4006	1.4006	2302	410S21	410, 309L	
	410S	410S	S41008	0.06	—	12	—	—	—	1.4000	1.4000	2301	403S17	410, 309L	
	416	416	S41600	0.12	—	12	—	—	S	1.4005	1.4005	2380	416S21	—	
	430	430	S43000	0.04	—	16.5	—	—	—	1.4016	1.4016	2320	430S17	308L, 309L	
	430F	S43020	S43020	0.12 max	—	16.0-18.0	—	—	0.15min	1.4104	1.4104	2383	—	—	
	434	434	S43400	0.06	—	17	—	1	—	1.4113	—	—	—	312	
	439	439	S43035	0.03	—	18	—	—	Ti	1.4510	—	—	—	316L	
	17-4	630	S17400	0.04	—	15.3	4.8	—	Cu, Cb	1.4542	1.4542	—	—	630, 309L	
17-7	631	S17700	0.05	—	16.3	7.0	—	Al	1.4568	1.4568	2388	—	—		
Heat Resisting	Austenitic	304H	304H	S30409	0.05	0.06	18.2	8.1	—	—	1.4948	1.4948	2333	304S51	308H
		321H	321H	S32109	0.05	0.01	17.3	9.2	—	Ti	1.4878	1.4878	2337	321S51	347H
		347H	S34709	S34709	0.04-0.10	—	17.0-20.0	9.0-13.0	—	CbKcmin 1.00max	1.4961	1.4961	2347	316 Sxx	—
		309H	S30909	S30909	0.04-0.10	—	22.0-24.0	12.0-16.0	—	—	—	—	—	—	—
		309S	309S	S30908	0.06	0.08	22.2	12.2	—	—	1.4833	1.4833	—	309S16	309
		310H	S31009	S31009	0.04-0.10	—	24.0-26.0	19.0-22.0	—	—	—	—	—	—	—
		310S	310S	S31008	0.05	0.06	25.2	19.2	—	—	1.4845	1.4845	2361	310S16	310
		153 MA	S30415	S30415	0.05	0.15	18.5	9.5	—	Si, Ce	1.4818	—	2372	—	253 MA
		253 MA	S30815	S30815	0.09	0.17	21	11	—	Si, Ce	1.4835	—	2368	—	253 MA
353 MA	S35315	S35315	0.05	0.16	25	35	—	Si, Ce	1.4854	—	—	—	353 MA		

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PRODEC—Providing improved machinability

*The chemical composition of specific stainless steel grades may vary according to the national standards to which they are ordered.