

Stainless Steel Grades Chemical Compositions

Austenitic Stainless Steels									
Common Name	UNS No.	C	Cr	Ni	Mo	N	Mn	Cu	Other
201	S20100	0.15	16.0-18.0	3.5-5.5	-	0.25	5.50-7.50	-	-
301	S30100	0.15	16.0-18.0	6.0-8.0	-	0.1	2	-	-
304L	S30403	0.03	17.5-19.5	8.0-12.0	-	0.1	2	-	-
305	S30500	0.12	17.0-19.0	10.5-13.0	-	-	2	-	-
321	S32100	0.08	17.0-19.0	9.0-12.0	-	0.1	2	-	Ti 5x(C+N)
347	S34700	0.08	17.0-19.0	9.0-13.0	-	-	2	-	Cb 10xC to 1.00
309S	S30908	0.08	22.0-24.0	12.0-15.0	-	-	2	-	-
310S	S31008	0.08	24.0-26.0	19.0-22.0	-	-	2	-	-
316L	S31603	0.03	16.0-18.0	10.0-14.0	2.00-3.00	0.1	2	-	-
317L	S31703	0.03	18.0-20.0	11.0-15.0	3.0-4.0	0.1	2	-	-
317LMN	S31726	0.03	17.0-20.0	13.5-17.5	4.0-5.0	0.10-0.20	2	-	-
904L	N08904	0.02	19.0-23.0	23.0-28.0	4.00-5.00	0.1	2	1.00-2.00	-

Ferritic Stainless Steels									
Common Name	UNS No.	C	Cr	Ni	Mo	N	Mn	Cu	Other
409	S40910	0.03	10.5-11.7	0.5	-	0.03	1	-	Ti 6x(C+N) to .50 Cb 0.17
	S40920	0.03	10.5-11.7	0.5	-	0.03	1	-	Ti 8x(C+N) min. Ti 0.15-0.50 Cb 0.10
	S40930	0.03	10.5-11.7	0.5	-	0.03	1	-	(Ti+Cb) [0.08+8x(C+N)] to 0.75 Ti 0.05 min.
405	S40500	0.08	11.5-14.5	0.6	-	-	1	-	Al 0.10-0.30
430	S43000	0.12	16.0-18.0	0.75	-	-	1	-	-
434	S43400	0.12	16.0-18.0	-	0.75-1.25	-	1	-	-
436	S43600	0.12	16.0-18.0	-	0.75-1.25	-	1	-	Cb 5xC to 0.80
439	S43035	0.03	17.0-19.0	0.5	-	0.03	1	-	Ti [0.20+4(C+N)] to 1.10 Al .15 max.
444	S44400	0.025	17.5-19.5	1	1.75-2.50	0.035	1	-	(Ti+Cb) [0.20+4(C+N)] to 0.80 max.
2026/03/03	S44660	0.03	25.0-28.0	1.0-3.5	3.0-4.0	0.04	1	-	(Ti+Cb) 0.20 to 1.00 and (Ti+Cb) 6x(C+N) min.

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Martensitic Stainless Steels									
Common Name	UNS No.	C	Cr	Ni	Mo	N	Mn	Cu	Other
410	S41000	0.08-0.15	11.5-13.5	0.75			1		
420	S42000	0.15 min.	12.0-14.0	0.75	0.5		1		
440A	S44002	0.60-0.75	16.0-18.0		0.75		1		
440C	S44004	0.95-1.20	16.0-18.0		0.75		1		

Precipitation Hardening Stainless Steels									
Common Name	UNS No.	C	Cr	Ni	Mo	N	Mn	Cu	Other
XM-13	S13800	0.05	12.3-13.2	7.5-8.5	2.00-2.50	0.01	0.2		Al 0.90-1.35
XM-12	S15500	0.07	14.0-15.5	3.5-5.5			1	2.5-4.5	Cb+Ta 0.15-0.45
632	S15700	0.09	14.0-16.0	6.5-7.7	2.00-3.00		1		Al 0.75-1.50
630	S17400	0.07	15.0-17.5	3.0-5.0			1	3.0-5.0	Cb+Ta 0.15-0.45
631	S17700	0.09	16.0-18.0	6.5-7.7			1		Al 0.75-1.50

Duplex Stainless Steels									
Common Name	UNS No.	C	Cr	Ni	Mo	N	Mn	Cu	Other
	S31200	0.03	24.0-26.0	5.5-6.5	1.20-2.00	0.14-0.20	2		
	S31260	0.03	24.0-26.0	5.5-7.5	2.5-3.5	0.10-0.30	1	0.20-0.80	W 0.10-0.50
	S32001	0.03	19.5-21.5	1.00-3.00	0.6	0.05-0.17	4.0-6.0	1	
	S32003	0.03	19.5-22.5	3.0-4.0	1.50-2.00	0.14-0.20	2		
	S32101	0.04	21.0-22.0	1.35-1.70	0.10-0.80	0.20-0.25	4.0-6.0	0.10-0.80	
	S32202	0.03	21.5-24.0	1.00-2.80	0.45	0.18-0.26	2		
2304	S32304	0.03	21.5-24.5	3.0-5.5	0.05-0.60	0.05-0.20	2.5	0.05-0.60	
2205	S31803	0.03	21.0-23.0	4.5-6.5	2.5-3.5	0.08-0.20	2		
2205	S32205	0.03	22.0-23.0	4.5-6.5	3.0-3.5	0.14-0.20	2		
	S32506	0.03	24.0-26.0	5.5-7.2	3.0-3.5	0.08-0.20	1		W 0.05-0.30
	S32520	0.03	24.0-26.0	5.5-8.0	3.0-4.0	0.20-0.35	1.5	0.50-2.00	
255	S32550	0.04	24.0-27.0	4.5-6.5	2.9-3.9	0.10-0.25	1.5	1.50-2.50	
2507	S32750	0.03	24.0-26.0	6.0-8.0	3.0-5.0	0.24-0.32	1.2	0.5	
	S32760	0.03	24.0-26.0	6.0-8.0	3.0-4.0	0.20-0.30	1	0.50-1.00	W 0.50-1.00
	S32808	0.03	27.0-27.9	7.0-8.2	0.8-1.2	0.30-0.40	1.1		W 2.10-2.50
	S32906	0.03	28.0-30.0	5.8-7.5	1.50-2.60	0.30-0.40	0.80-1.5	0.8	
	S32950	0.03	26.0-29.0	3.50-5.20	1.00-2.50	0.15-0.35	2		
	S39274	0.03	24.0-26.0	6.8-8.0	2.5-3.5	0.24-0.32	1	0.20-0.80	W 1.50-2.50
	S82011	0.03	20.5-23.5	1.0-2.0	0.10-1.00	0.15-0.27	2.0-3.0	0.5	