

Nominal Compositions of Martensitic Stainless Steels

Type	UNS Number	Composition - Percent *										Other
		C	Mn	Si	Cr	Ni	P	S				
403	S40300	0.15	1.00	0.50	11.5-13.0		0.04	0.03				
410	S41000	0.15	1.00	1.00	11.5-13.0		0.04	0.03				
410Cb	S41040	0.18	1.00	1.00	11.5-13.5		0.04	0.03				0.05-0.3 Nb(Cb)
410S	S41008	0.08	1.00	1.00	11.5-13.5	0.6	0.04	0.03				
414	S41400	0.15	1.00	1.00	11.5-13.5	1.25-2.50	0.04	0.03				
414L		0.06	0.50	0.15	12.5-13.0	2.5-3.0	0.04	0.03				0.5 Mo; 0.03 Al
416	S41600	0.15	1.25	1.00	12.0-14.0		0.04	0.03				0.6 Mo
416Se**	S41623	0.15	1.25	1.00	12.0-14.0		0.06	0.06				0.15 min. Se
416 Plus X**	S41610	0.15	1.5-2.5	1.00	12.0-14.0		0.06	0.15 min.				0.6 Mo
420	S42000	0.15 min.	1.00	1.00	12.0-14.0		0.04	0.03				
420F**	S42020	0.15 min.	1.25	1.00	12.0-14.0		0.06	0.15 min.				0.6 Mo
422	S42200	0.20-0.25	1.00	0.75	11.0-13.0	0.5-1.0	0.025	0.025				0.75-1.25 Mo; 0.75-1.25 W; 0.15-0.3 V
431	S43100	0.20	1.00	1.00	15.0-17.0	1.25-2.50	0.04	0.03				
440A	S44002	0.60-0.75	1.00	1.00	16.0-18.0		0.04	0.03				0.75 Mo
440B	S44003	0.75-0.95	1.00	1.00	16.0-18.0		0.04	0.03				0.75 Mo
440C	S44004	0.95-1.20	1.00	1.00	16.0-18.0		0.04	0.03				0.75 Mo

*Single values are maximum values.

**These grades are generally considered to be unweldable.

(From ASM Metals Handbook, Ninth Edition, Volume 3)

