

(AISI) CHEMICAL COMPOSITIONS AUSTENITIC TYPES

TYPE	C MAX.	MIN. MAX.	P MAX.	S MAX.	SI MAX.	CR	NI	MO MAX.	OTHER ELEMENTS
201	0.15	5.50-7.50	.000	.000	1.00	16.00-18.00	3.50-5.50	-	N 0.25 Max
202	0.15	7.50-10.00	.000	.000	1.00	17.00-19.00	4.00-6.00	-	N 0.25 Max
301	0.15	2.00	.045	.000	1.00	16.00-18.00	6.00-8.00	-	-
302	0.15	2.00	.045	.000	1.00	17.00-19.00	8.00-10.00	-	-
303	0.15	2.00	.20	.15 min.	1.00	17.00-19.00	8.00-10.00	-	-
303SE	0.15	2.00	.20	.000	1.00	17.00-19.00	8.00-10.00	-	Se 0.15 Min
304	0.08	2.00	.045	.000	1.00	18.00-20.00	8.00-10.50	-	-
304L	0.03	2.00	.045	.000	1.00	18.00-20.00	8.00-12.00	-	-
305	0.12	2.00	.045	.000	1.00	17.00-19.00	10.50-13.00	-	-
308	0.05	2.00	.045	.000	1.00	19.00-21.00	10.00-12.00	-	-
309	0.2	2.00	.045	.000	1.00	22.00-24.00	12.00-15.00	-	-
309S	0.05	2.00	.045	.000	1.00	22.00-24.00	12.00-15.00	-	-
310	0.25	2.00	.045	.000	1.50	24.00-26.00	19.00-22.00	-	-
310S	0.08	2.00	.045	.000	1.50	24.00-26.00	19.00-22.00	-	-
314	0.25	2.00	.045	.000	1.50-2.00	23.00-26.00	19.00-22.00	-	-
316	0.08	2.00	.045	.000	1.00	16.00-18.00	10.00-14.00	2.00-3.00	-
316L	0.03	2.00	.045	.000	1.00	16.00-18.00	10.00-14.00	2.00-3.00	-
316F	0.08	2.00	.20	.10 min	1.00	16.00-18.00	10.00-14.00	1.75-3.00	-
317	0.08	2.00	.045	.000	1.00	18.00-20.00	11.00-15.00	3.00-4.00	-
317L	0.03	2.00	.045	.000	1.00	18.00-20.00	11.00-15.00	3.00-4.00	-
321	0.06	2.00	.045	.000	1.00	17.00-19.00	8.00-12.00	-	Ti 5x C Min
330	0.2	2.00	.000	.000	.75-1.50	17.00-20.00	34.00-37.00	-	-
347	0.02	2.00	.045	.000	1.00	17.00-19.00	9.00-13.00	-	Cb-Ta 10x C Min.
348	0.06	2.00	.045	.000	1.00	17.00-19.00	9.00-13.00	-	Cb-Ta 10x Min
384	0.08	2.00	.045	.000	1.00	15.00-17.00	17.00-19.00	-	Ta 0.10 Max Co 0.20 Max - Co + Ta 8 8xC Min
18-9 LW	0.1	2.00	.045	.000	1.00	17.00-19.00	8.00-10.00	-	Cu 3.0-4.0
Nitronic 32	0.15	11.00-14.00	.060	.000	1.00	16.50-19.00	.50-2.50	-	N .20-.45
Nitronic 33	0.08	11.50-14.50	.060	.000	1.00	17.00-19.00	2.25-3.75	-	N .20-.40
Nitronic 40	0.08	8.00-10.00	.060	.000	1.00	19.00-21.00	5.50-7.50	-	N .15-.40
Nitronic 50	.03-.08	4.00-6.00	.040	.000	1.00	20.50-23.50	11.50-13.50	1.50-3.00	N .20-.40
Nitronic 60	0.1	7.00-9.00	-	-	3.50-4.50	16.00-18.00	8.00-9.00	-	Co .10-.30 V .10-.30 N .06-.18

(AISI) CHEMICAL COMPOSITIONS AUSTENITIC TYPES

HARDENABLE (BY HEAT TREATMENT) TYPES

410	0.15	1.00	.040	.000	1.00	11.50-13.50	-	-	-
416	0.15	1.25	.060	.15 Min.	1.00	12.00-14.00	-	-	-
420	0.15 Min.	1.00	.040	.000	1.00	12.00-14.00	-	-	-
17-4PH	0.07	1.00	.040	.000	1.00	15.50-17.50	3.00-5.00	-	-
17-7PH	0.06	1.00	.040	.000	1.00	16.00-18.00	6.50-7.75	-	-

NON-HARDENABLE TYPES

409	0.06	1.00	.045	.045	1.00	10.50-11.75	-	-	Ti 6x C Min
430	0.12	1.00	.040	.000	1.00	16.00-18.00	-	-	-

NOMINAL CHEMICAL COMPOSITION NICKEL ALLOYS

NICKEL ALLOYS														
TYPE	NI	C	MN	Fe	S	SI	Cu	Cr	AL	TI	Mg	Cb	Mo	OTHERS
200	99.5	0.08	.018	0.2	.006	0.18	0.13	-	-	-	-	-	-	-
201	99.5	0.01	.018	0.2	.006	0.13	0.13	-	-	-	-	-	-	-
206	99.5	0.08	.018	0.10	.004	0.08	0.08	-	-	.03	.05	-	-	-
211	96	0.1	4.75	0.38	.008	0.08	0.13	-	-	-	-	-	-	-
212	97	0.2	2.00	0.75	.015	0.15	0.20	-	-	-	-	-	-	-
220	99.5	0.04	0.10	0.05	.004	0.03	0.05	-	-	.03	.06	-	-	-
230	99.5	0.06	0.05	0.05	.004	0.01	0.05	-	-	.003	.08	-	-	-
MONEL (NICKEL-COPPER) ALLOYS														
400	66.5	0.15	1.00	1.25	.012	0.25	31.5	-	-	-	-	-	-	-
INCONEL (NICKEL-CHROMIUM) ALLOYS														
600	78	0.06	0.5	8.00	.008	0.25	0.25	15.5	-	-	-	-	-	-
601	80.5	0.05	0.5	14.1	.007	0.25	0.50	23.0	1.36	-	-	-	-	-
625	81	0.05	0.25	2.5	.008	0.25	-	21.5	0.20	0.20	-	*To 3.65	9.00	-
X-750	73	0.04	0.50	7.0	.005	0.25	0.25	15.5	0.70	2.50	-	*To 0.95	-	-
751	72.5	0.05	0.50	7.0	.005	0.25	0.25	15.5	1.20	2.50	-	*To 0.96	-	-
INCOLOY (NICKEL-IRON-CHROMIUM) ALLOYS														
800	32.5	0.05	0.75	46.0	.008	0.50	0.08	21.0	0.36	0.36	-	-	-	-
801	32	0.05	0.75	44.5	.008	0.50	0.25	20.8	-	1.13	-	-	-	-
802	32.5	0.36	0.75	46.0	.008	0.38	-	21.0	0.58	0.75	-	-	-	-
804	41	0.05	0.75	25.4	.008	0.38	0.25	29.5	0.30	0.30	-	-	-	-
805	38	0.12	0.75	?	.020	0.60	0.50	7.5	-	-	-	-	0.50	-
825	42	0.03	0.80	30.0	.015	0.25	2.25	21.5	0.10	0.30	-	-	3.00	-