

## AUSTENITIC TYPES

TYPE	C MAX.	Mn MAX.	P MAX.	S MAX.	Si MAX.	Cr	Ni	Mo MAX.	OTHER ELEMENTS					
201	0.15	5.50- 7.50	.060	.030	1.00	16.00-18.00	3.50- 5.50		N 0.25 Max.					
202	0.15	7.50-10.00	.060	.030	1.00	17.00-19.00	4.00- 6.00		N 0.25 Max.					
301	0.15	2.00	.045	.030	1.00	16.00-18.00	6.00- 8.00		-					
302	0.15	2.00	.045	.030	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	.060	1.00	17.00-19.00	8.00-10.00		Se 0.15 Min.					
304	0.08	2.00	.045	.030	1.00	18.00-20.00	8.00-10.50		-					
304L	0.03	2.00	.045	.030	1.00	18.00-20.00	8.00-12.00		-					
305	0.12	2.00	.045	.030	1.00	17.00-19.00	10.50-13.00		-					
308	0.08	2.00	.045	.030	1.00	19.00-21.00	10.00-12.00		-					
309	0.20	2.00	.045	.030	1.00	22.00-24.00	12.00-15.00		-					
309S	0.08	2.00	.045	.030	1.00	22.00-24.00	12.00-15.00		-					
310	0.25	2.00	.045	.030	1.50	24.00-26.00	19.00-22.00		-					
310S	0.08	2.00	.045	.030	1.50	24.00-26.00	19.00-22.00		-					
314	0.25	2.00	.045	.030	1.50-3.00	23.00-26.00	19.00-22.00		-					
316	0.08	2.00	.045	.030	1.00	16.00-18.00	10.00-14.00	2.00-3.00	-					
316L	0.03	2.00	.045	.030	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	.030	1.00	18.00-20.00	11.00-15.00	3.00-4.00	-					
317L	0.03	2.00	.045	.030	1.00	18.00-20.00	11.00-15.00	3.00-4.00	-					
321	0.08	2.00	.045	.030	1.00	17.00-19.00	9.00-12.00		Ti 5x C Min.					
330	0.20	2.00	.030	.030	.75-1.50	17.00-20.00	34.00-37.00		-					
347	0.02	2.00	.045	.030	1.00	17.00-19.00	9.00-13.00		Cb-Ta 10 x C Min.					
348	0.08	2.00	.045	.030	1.00	17.00-19.00	9.00-13.00		Cb-Ta 10 x C Min.					
384	0.08	2.00	.045	.030	1.00	15.00-17.00	17.00-19.00		Ta 0.10 Max. Co 0.20 Max. Cb + Ta 8					
18-9 LW	0.10	2.00	.045	.030	1.00	17.00-19.00	8.00-10.00		8x C Min.					
Nitronic 32	0.15	11.00-14.00	.060	.030	1.00	16.50-19.00	.50- 2.50		Cu 3.0-4.0					
Nitronic 33	0.08	11.50-14.50	.060	.030	1.00	17.00-19.00	2.25- 3.75		N .20-.45					
Nitronic 40	0.08	8.00-10.00	.060	.030	1.00	19.00-21.00	5.50- 7.50		N .15-.40					
Nitronic 50	.03-.06	4.00- 6.00	.040	.030	1.00	20.50-23.50	11.50-13.50	1.50-3.00	N .20-.40					
Nitronic 60	0.10	7.00- 9.00			3.50-4.50	16.00-18.00	8.00- 9.00		Co .10-.30 V .10-.30 N .08-.18					
<b>HARDENABLE (BY HEAT TREATMENT) TYPES</b>														
410	0.15	1.00	.040	.030	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	.030	1.00	12.00-14.00			-					
17-4PH	0.07	1.00	.040	.030	1.00	15.50-17.50	3.00-5.00		-					
17-7PH	0.09	1.00	.040	.030	1.00	16.00-18.00	6.50-7.75		-					
<b>NON-HARDENABLE TYPES</b>														
409	0.08	1.00	.045	.045	1.00	10.50-11.75			Ti 6 x C Min.					
430	0.12	1.00	.040	.030	1.00	16.00-18.00								
<b>NOMINAL CHEMICAL COMPOSITION NICKEL ALLOYS</b>														
<b>NICKEL ALLOYS</b>														
TYPE	Ni	C	Mn	Fe	S	Si	Cu	Cr	Al	Ti	Mg	Cb	Mo	OTHERS
200	99.5	0.08	0.18	0.2	.005	0.18	0.13			-		-	-	
201	99.5	.01	0.18	0.2	.005	0.13	0.13			-		-	-	
205	99.5	.08	0.18	0.10	.004	0.08	0.08			.03	.05	-	-	
211	95.0	.10	4.75	0.38	.008	0.08	0.13			-		-	-	
212	97.0	.20	2.00	0.75	.015	0.15	0.20			-		-	-	
220	99.5	.04	0.10	0.05	.004	0.03	0.05			.03	.05	-	-	
230	99.5	.05	0.08	0.05	.004	0.02	0.05			.003	.06	-	-	
<b>MONEL® (NICKEL-COPPER) ALLOYS</b>														
400	66.5	.15	1.00	1.25	.012	0.25	31.5							
<b>INCONEL® (NICKEL-CHROMIUM) ALLOYS</b>														
600	76.0	.08	0.5	8.00	.008	0.25	0.25	15.5						
601	60.5	.05	0.5	14.1	.007	0.25	0.50	23.0	1.35					
625	61.0	.05	0.25	2.5	.008	0.25	0.25	21.5	0.20	0.20				
X-750	73.0	.04	0.50	7.0	.005	0.25	0.25	15.5	0.70	2.50		+ Ta 3.65	9.00	
751	72.5	.05	0.50	7.0	.005	0.25	0.25	15.5	1.20	2.30		+ Ta 0.95		
<b>INCOLOY® (NICKEL-IRON-CHROMIUM) ALLOYS</b>														
800	32.5	.05	0.75	46.0	.008	0.50	0.38	21.0	0.38	0.38				
801	32.0	.05	0.75	44.5	.008	0.50	0.25	20.5		1.13				
802	32.5	.35	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	0.60				
805	36.0	.12	0.75	Bal.	.020	0.50	0.50	7.5					0.50	

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