

2.2 Ni/Cr		C	Si	S	P	Mn	Cu	Fe	Cr	Mo	Co	Ti	Al	Mg	B	Ni	Typical Alloy Type	Size			
	C22 X 7530A	0.06	0.96	...	...	0.23	0.05	5.00	19.9	0.06	0.52	0.26	0.07	0.05	...	...	Nimonic 75'	50g	
	C22 X 7550A	0.12	0.22	...	...	0.99	0.23	1.11	18.09	0.52	0.10	0.84	0.58	<0.005	...	...		50g	
	C22 X 8010A	0.12	0.22	...	...	0.50	0.22	0.66	21.88	0.20	0.52	2.81	1.03	0.008	(0.0001)	...	Ag, Sn, Zr	50g	
	C22 X 8030A	0.03	1.09	...	...	0.21	0.08	1.88	17.7(2)	0.50	1.99	1.81	1.84	0.001	<0.001	...	Ag, Sn, Zr	50g	
	C22 X 9030A	0.05	1.00	...	...	0.20	0.01	0.33	20.96	0.06	18.04	1.85	1.66	<0.005	0.023	...		50g	
	C22 X 9050A	0.20	0.21	...	...	0.97	0.22	1.09	18.10	0.51	20.99	2.75	1.01	<0.005	<0.001	...		50g	
	C22 X 10530A	0.12	0.98	...	...	0.51	0.21	0.40	13.91	6.05	17.74	1.37	5.24	0.0007	...	...		50g	
	C22 X 10550A	0.30	0.26	...	...	<0.01	<0.01	1.22	15.52	3.96	21.7	0.44	4.74	0.014	...	...		50g	
	C22 X 90120A	0.10	0.25	0.022	0.015	0.52	0.14	...	13.76	4.49	0.38	2.01	0.13	...	0.008	41.1		50g			
	C22 X 90130A	0.11	0.29	0.034	0.036	0.68	0.25	...	11.02	6.38	1.02	3.88	0.34	...	0.036	43.6		50g			
CRM	C22 A 310/1	0.068	0.46	...	...	0.35	...	...	19.45	...	17.0	2.43	1.06	...	...	58.6		100g	
CRM	C22 A 387/1	0.033	0.06	0.0028	0.0033	0.025	0.0076	...	11.35	5.83	0.02	3.00	0.24	...	0.017	41.2		100g			
2.3 Fe/Ni/Cr		C	Si	S	P	Mn	Cu	Cr	Mo	Co	Ti	Al	Ni	Fe				Typical Alloy Type	Size		
	C23 X 80010A	0.11	0.22	...	...	1.05	0.07	22.9	0.52	0.98	0.44	0.38	30.1	...				Incoloy 800'	50g
	C23 X 80030A	0.05	0.87	...	...	0.42	0.53	18.92	0.14	0.11	0.10	0.06	34.7	...					50g
	C23 X DS 10A	0.13	2.38	...	...	1.65	0.04	17.7	0.04	0.99	0.04	0.04	34.6	...				Incoloy 800DS'	50g
	C23 X DS 30A	0.04	1.43	...	...	0.67	0.62	19.87	0.62	0.11	0.34	0.01	39.66	...					50g
CRM	C23 S 680-3	0.051	0.44	0.0018	(0.0009)	0.95	0.20	20.96	...	0.40	0.42	0.51	32.80	(43.2)					150g		
2.4 Ni/Cr/Co/Mo		C	S	Si	Mn	Cu	Fe	Cr	Mo	Co	Ti	Al	Nb	B	V	W	Zr	P	Others	Size	
	C24 X 26310A	0.06	0.002	0.12	0.71	0.07	0.74	18.96	5.66	20.9	2.56	0.30	...	0.006	50g	
	C24 X 26350A	0.11	0.005	0.55	0.11	0.23	0.17	20.9	6.62	18.9	1.96	0.605	...	<0.001	50g	
	C24 X WASP 10A	0.02	0.002	0.56	0.11	0.07	0.58	17.82	6.20	14.9	3.68	1.65	<0.01	<0.001	<0.01	0.02	0.03	0.009		50g	
CRM	C24 X WASP 30D	0.118	0.026	0.208	0.542	0.735	0.96	20.84	1.96	13.77	5.52	2.99	0.163	0.0087	0.123	0.064	0.059	0.014	Ni, Ta	50g	
	C24 X WASP 40A	0.14	0.008	0.02	0.42	0.23	2.33	20.7(3)	3.06	11.76	2.53	0.91	0.12	0.011	0.15	0.22	0.10	<0.001		50g	
CRM	C24 X WASP 40C	0.052	(0.01)	0.21	0.53	(0.004)	1.48	19.7	7.51	11.01	2.25	2.16	0.25	0.014	0.145	0.25	0.08	<0.005	Pb, Ni	50g	
2.7 Ni/Cr/Mo/Co		C	Si	Mn	Cu	Fe	Cr	Mo	Co	Ti	Al									Typical Alloy Type	Size
	C27 X 141840A	0.29(5)	0.39	0.41	0.09	0.57	21.0	10.2	10.3	0.07	0.05									C242/ANC11	50g
2.8 Ni/Cr/Fe		C	Si	S	P	Mn	Cu	Fe	Cr	Mo	Co	Ti	Al	Nb	Ni	B	N	Others	Size		
	C28 X 60010A	0.06	0.85	...	...	0.14	1.08	5.98	16.75	...	0.98	0.60	0.02	...	...	...	...		50g
	C28 X 60020A	0.16	0.20	...	...	0.64	0.03	10.07	13.95	...	0.21	0.12	0.26	...	...	...	...		50g
	C28 X 62510A	0.02	0.27	0.004	0.003	0.08	0.03	2.19	19.9	10.36	0.02	0.01	0.003	2.93	...	...	...		50g
CRM	C28 X 62510K	0.039	0.47	0.001	(0.0014)	0.17	0.051	3.12	20.5	9.88	0.022	(0.01)	0.16	2.70	(62.3)	0.0047	0.211		50g		
CRM	C28 X 62520L	0.077	0.61	0.0039	0.010	0.28	0.145	4.14	21.5	8.77	0.20	0.027	0.21	3.39	59.9	0.014	0.32	Sn, Bi, Ag	50g		
	C28 X 62530A	0.15	0.74	0.013	0.01	0.60	0.32	5.5	22.9	7.69	0.45	0.53	0.53	4.96	...	...	...		50g
CRM	C28 X 62530M	0.124	1.26	0.013	0.02	0.54	0.30	5.41	21.90	7.86	0.39	0.044	0.32	4.25	56.67	0.023	0.35	Sn, Bi	50g		
CRM	C28 X 62540K	0.037	0.53	0.0046	0.004	0.093	0.027	6.46	21.1	5.89	0.22	0.30	0.05	3.53	(61.3)	0.0014	0.065		50g		
	C28 X 71810A	0.05	0.24	0.011	0.005	0.10	0.02	...	21.16	2.23	0.01	0.21	0.17	4.34	49.7	...	...		50g
CRM	C28 X 71810H	0.008	0.71	0.005	(0.003)	0.108	0.013	(19.5)	18.71	2.94	0.01	0.025	(0.007)	4.97	52.6	0.0010	0.233	Sn, V	50g		
CRM	C28 X 71820L	0.035	0.47	0.0066	0.004	0.184	0.117	17.0	21.30	0.88	0.64	1.13	0.34	4.76	52.7	(0.0010)	0.033	Ta, V, W	50g		
	C28 X 71830A	0.19	0.38	0.05	0.026	0.47	0.35	...	17.78	3.31	1.00	1.40	1.77	5.44	54.8	...	...		50g
CRM	C28 X 71830S	0.296	0.52	0.0023	0.003	0.36	0.26	(19.6)	18.85	1.31	0.94	1.21	1.21	6.25	49.0	0.0016	0.037	Ta, V, W	50g		
CRM	C28 X 71860H	0.007	0.65	0.014	0.016	0.253	0.091	(16.5)	17.85	2.88	0.404	0.20	0.32	5.15	54.84	0.0047	0.077	V	50g		
	C28 X 75010A	0.10	0.60	...	...	1.52	0.52	5.08	16.82	0.51	...	2.31	0.98	1.46	...	...	...		50g
	C28 X 75030A	0.06	0.25	...	...	0.54	0.07	8.04	13.72	0.12	...	2.93	0.41	0.55	...	...	...		50g
CRM	C28 A 351	0.025	0.14	0.0006	(0.006)	0.037	0.016	...	18.12	3.06	0.136	1.06	0.55	5.2	53.1	0.0051	...		100g		
CRM	C28 S 683-2	0.049	0.39	0.0013	(0.0008)	0.32	0.051	9.66	15.82	...	(0.011)	0.013	0.12	...	73.43	...	...		150g

C2. Nickel Base

Chippings

2.1 Ni/Co/Cr/Al/Ti		C	Si	Mn	Cu	Fe	Cr	Mo	Co	Ti	Al	V	Ni	W	B	N	Typical Alloy Type	Size
CRM	C210 X 117750G	0.024	0.36	0.127	(0.008)	1.02	10.42	3.19	14.83	5.76	7.0	0.47	(56.6)	...	...	(0.003)	IN100	50g
CRM	C210 RU N15/3	0.052	0.219	0.047	0.017	0.51	10.02	5.55	15.06	2.55	4.02	0.319	...	5.50	0.022	...		250g
2.11 Ni/Cr/Al		C	Si	Mn	Cu	Fe	Cr	Mo	Co	Ti	Al	Nb	Zr	B	Ni	Typical Alloy Type	Size	
	C211 X 71310A	0.04	0.11	0.06	0.008	0.57	10.92	3.53	0.14	0.45	5.5	2.78	0.06	<0.001	...		50g	
	C211 X 71320A	0.16	0.51	0.27	0.13	0.39	12.9	5.50	1.04	1.13	6.59	1.64	0.18	0.016	...	N 713	50g	
CRM	C211 A 350	0.138	0.11	0.019	...	...	13.43	4.29	0.338	0.87	5.97	2.17	...	0.013	70.8	Inconel 713'	100g	
2.12 Ni/Cu		C	Si	S	Mn	Fe	Cr	Pb	Co	Ti	Al	Mg	Ni	Cu	Typical Alloy Type	Size		
	C212 X 40010A	0.10	1.48	0.022	3.04	0.57	0.05	0.08	0.12	0.11	0.09	0.13	67.6	rem	'Monel'	50g		
	C212 X 40020A	0.04	0.10	0.075	2.00	1.17	0.02	0.04	0.08	0.06	0.05	0.02	65.2	rem	400/500	50g		
	C212 X 40060A	0.03	3.94	0.035	0.83	1.95	0.12	0.02	0.05	1.34	3.85	0.016	63.3	rem	505/506	50g		
CRM	C212 A 363/1	0.14	0.028	(0.002)	1.26	...	(0.05)	...	0.032	0.03	0.027	...	64.7	31.9	Monel 400'	100g		
2.15 Ni/Co/Cr/Fe/Mo		C	Si	S	P	Mn	Fe	Cr	Mo	Co	V	W	Cu	Al	N	Typical Alloy Type	Size	
	C215 X HB10A	0.04	0.14	0.051	<0.006	1.15	6.95	1.15	35.8	0.05	0.57	...	...	...	...		50g	
CRM	C215 X HB10L	0.056	0.48	0.026	0.006	1.21	7.71	0.84	33.6	0.10	0.87	...	0.05	0.31	0.042	'Hastelloy B'	50g	
	C215 X HB50A	0.16	0.59	0.005	0.058	0.38	3.48	0.06	27.2	2.67	0.11	...	...	...	...		50g	
CRM	C215 X HB50J	0.147	1.30	0.002	0.053	0.44	3.05	0.03	26.0	2.47	0.14	...	0.05	0.20	0.008		50g	
	C215 X HC10A	0.04	0.38	0.007	0.006	1.28	4.50	16.0	19.6	2.28	0.13	3.58	...	...	...		50g	
CRM	C215 X HC20H	0.066	1.02	0.003	0.012	0.97	3.62	15.7	18.9	1.70	0.38	3.91	0.023	0.18	0.18		50g	
	C215 X HC50A	0.67	1.04	0.078	0.085	0.27	10.96	19.9	15.5	0.13	0.60	5.5	...	...	...	'Hastelloy C'	50g	
CRM	C215 X HC50Q	0.190	1.56	0.044	0.049	0.30	7.65	19.9	16.0	0.08	0.72	5.4	0.05	0.22	0.32		50g	
2.16 Pure Nickel		All Elements ppm														Size		
	C216 M BSHPN-1	C	S	P	Si	Mn	Cr	Mo	Pb	Cu	Fe	Al				100g		
		268	4	5	6	2	22	3	0	2	202	70						
2.19 Various Nickel Alloys		C	Si	S	P	Mn	Cr	Mo	Ni	Al	B	Co	Cu	W	Ti	V	Others	Size
CRM	C219 X 205000A	0.025	1.48	0.004	0.002	0.22	51.2	0.002	45.7	...	...	0.002	0.002	...	...	...	Fe 1.26	50g
CRM	C219 DB E326-1	0.092	1.46	0.0028	0.0093	0.406	16.37	(0.025)	61.16	(0.79)	...	0.223	(0.027)	...	...	(0.024)	Zr 0.129	100g
CRM	C219 RU N8/3	0.0103	0.421	0.0016	0.0023	0.010	14.06	4.30	...	...	0.020	...	0.011	6.05	2.18	0.58	Mg 0.0015	250g
CRM	C219 RU N13/4	0.0097	0.404	0.0019	0.0017	0.203	17.89	4.40	...	2.84	0.0097	5.52	...	6.53	1.11	...	Ce 0.0046	250g
CRM	C219 RU N14/3	0.0120	0.67	0.0029	0.0020	0.385	24.35	1.32	57.0	0.164	...	...	0.0082	13.47	0.40	...	Fe 2.16	250g
CRM	C219 A 345	0.153	...	...	...	...	9.95	3.01	rem	5.58	0.019	14.71	...	...	4.74	1.0		
CRM	C219 A 346	(0.15)	...	...	...	...	(10.0)	(3.0)	rem	(5.5)	...	(15.0)	...	...	(5.0)	(1.0)		continued
CRM	C219 A 371	0.3	0.34	0.013	...	...	...	...	...	...	...	0.39	...	...	...	...
Continuation from above		All Elements ppm														Typical Alloy Type	Size	
	C219 A 345	Pb	Bi	Ag	Se	Te	Sb	As	Cd	Ga	Sn	Zn	Mg	Tl	Ca			100g
		0.2	<0.2	<0.2	<0.5	<0.2	<2	(2)	<0.1	8	6	<0.5	5	<0.2	<5			
	C219 A 346	21	10	35	9	12	47	50	0.4	(52)	91	29	147	(2)	(36)			Inconel 100
	C219 A 371	...	...	...	...	...	...	...	...	...	...	...	600	...	...			Comm Nickel