

## 102.12 - Nickel Base Alloys (chip and disk forms)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

Concentration are expressed as mass fraction, in % (unless noted by an asterisk \* for mg/kg).

SRM	Description	Unit of Issue	Aluminum (Al)	Antimony (Sb)	Arsenic (As)	Bismuth (Bi)	Boron (B)	Carbon (C)	Chromium (Cr)	Cobalt (Co)	Copper (Cu)	Gallium (Ga)	Hafnium (Hf)	Iron (Fe)	Lead (Pb)	Magnesium (Mg)
349a	Waspaloy	150 g	1.23				0.005	0.035	19.3	12.46	0.007			1.15		
861	Nickel-based Superalloy PWA 1484 (chip form)	50 g														
864	Nickel Alloy UNS N06600 (chip form)	100 g	0.252		19.0*		28.3*	0.063	15.74	0.0602	0.255			9.63	2.27*	138.3*
865	Inconel 625	150 g	0.21				<0.001	0.037	21.9	0.072	0.36	(0.012)		4.5		
882	Nickel-Copper Alloy (65Ni-31Cu-3Al)	100 g	2.85					0.006			31.02			0.009		
897	Tracealloy A	35 g	(2)	1.6*		0.55*	(0.01)	(0.12)	(12)	(8.5)		6.3*	(1.2)		11.48*	
899	Tracealloy C	35 g	(2)	1.53*		0.24*	(0.01)	(0.12)	(12)	(8.5)		6.0*	(1.2)		3.928*	
1159	Electronic and Magnetic Alloy Standard	disk						0.007	0.06	0.022	0.038			51.0		
1160	Elec/Mag Ni-Mo-Fe	disk						0.019	0.05	0.054	0.021			14.3		
1243	Ni-Cr-Co Alloy UNS N07001 (disk form)	disk	1.23				49.4*	0.024	19.05	12.39	63*			0.776		
1244	Nickel Alloy UNS N06600 (disk form)	disk	0.252		19.0*		28.3*	0.063	15.74	0.0602	0.255			9.63	2.27*	138.3*
C1248	Nickel-Copper Alloy	disk	0.009					0.266	0.095		29.80			2.10	3.8 mg/kg	
1249	Ni-Cr-Fe-Nb-Mo Alloy UNS N07718 (disk form)	disk	0.5682	0.00030	0.0013		0.0023	0.0380	18.472	0.3371	0.1402	0.0019		17.693		0.0012
1775	Refractory Alloy MP-35-N	disk	0.024				0.0097	0.0051	20.4	33.3	0.0046			0.91		
2175	Refractory Alloy MP-35-N	150 g	0.024				0.0097	0.0051	20.4	33.3	0.0046			0.91		
C2402	Hastelloy7C	disk					(0.0004)	0.010	16.15	1.50	0.19			7.3		

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Manganese (Mn)
0.019
0.288
0.18
0.0007
0.305
0.550
73.0*
0.288
0.31
0.109
0.0121
0.0121
0.64

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SRM	Description	Unit of Issue	Molybdenum (Mo)	Nickel (Ni)	Niobium (Nb)	Nitrogen (N)	Phosphorus (P)	Selenium (Se)	Silicon (Si)	Silver (Ag)	Sulfur (S)	Tantalum (Ta)	Tellurium (Te)	Thallium (Tl)	Tin (Sn)
349a	Waspaloy	150 g	4.25	58.1	(0.05)		0.003		0.018		0.0024				
861	Nickel-based Superalloy PWA 1484 (chip form)	50 g					0.001271				0.0000561				
864	Nickel Alloy UNS N06600 (chip form)	100 g	0.204	73.09	0.126	(0.01)	0.011		0.114		0.0028			0.0029*	7.4*
865	Inconel 625	150 g	8.6	59.5	3.5		0.012		0.41		0.001				
882	Nickel-Copper Alloy (55Ni-31Cu-3Al)	100 g		65.25					0.006		0.0014				
897	Tracealloy A	35 g		(Bal)	(0.9)			9.29*		0.9*		(1.75)	1.060*	0.536*	4.2*
899	Tracealloy C	35 g		(Bal)	(0.9)			9.36*		0.8*		(1.75)	5.72*	0.273*	4.2*
1159	Electronic and Magnetic Alloy Standard	disk	0.010	48.2			0.003		0.32		0.003				
1160	Elec/Mag Ni-Mo-Fe	disk	4.35	80.3			0.003		0.37		0.001				
1243	Ni-Cr-Co Alloy UNS N07001 (disk form)	disk	4.226	58.782	0.0286		31.7*		0.0192		21.7*	(0.0003)			
1244	Nickel Alloy UNS N06600 (disk form)	disk	0.204	73.09	0.126	(0.01)	0.011		0.114		0.0028			0.0029*	7.4*
C1248	Nickel-Copper Alloy	disk	0.006	65.75			0.002		1.61		0.0008				1.1 mg/kg
1249	Ni-Cr-Fe-Nb-Mo Alloy UNS N07718 (disk form)	disk	3.112	53.29	5.196		0.0134		0.120		0.00064	0.0027			0.0024
1775	Refractory Alloy MP-35-N	disk	9.508	34.91	(0.03)	(0.002)	0.0006		(0.02)		0.0013				
2175	Refractory Alloy MP-35-N	150 g	9.508	34.91	(0.03)	(0.002)	0.0006		(0.02)		0.0013				
C2402	Hastelloy7C	disk	17.1	51.5	(<0.01)		0.007		0.85		0.018				(0.001)

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Titanium (Ti)	Tungsten (W)
3.06	(0.06)
0.251	
0.28	
0.57	
(2)	(1.75)
(2)	(1.75)
3.054	0.0139
0.251	
0.959	0.0846
	(0.02)
	(0.02)
	4.29

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