

101.9 - High Temperature 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.

	866	867	1230	1246	1247	1250	C2400
Description >>	Incoloy 800	Ni-Fe-Cr Alloy UNS N08825 (chip form)	High-Temperature Alloy A286 (disk form)	Incoloy 800	Ni-Fe-Cr Alloy UNS N08825 (disk form)	High-Temperature Alloy (Fe-Ni-Co)	Fe-Cr-Ni Alloy UNS J92180 (disk form)
Unit of Issue >>	100 g	100 g	disk	disk	disk	disk	disk

Elemental Composition (mass fraction in %) unless noted with an asterisk (*) for mg/kg.

Aluminum	0.29	0.0630	0.249	0.30	0.0630	0.99	(<0.01)
Antimony		(4*)			(4*)		
Arsenic		25.7*	(<0.005)		25.7*		
Bismuth		(<0.5*)	(<0.0001)		(<0.5*)		
Boron	<0.001	19.8*	0.00519	<0.001	19.8*	0.0078	(0.0004)
Carbon	0.082	0.0212	0.0428	0.082	0.0212	0.022	0.036
Chromium	20.1	23.375	14.65	20.1	23.375	0.077	17.06
Cobalt	0.075	0.092	0.151	0.076	0.092	16.1	0.10
Copper	0.49	1.767	0.137	0.49	1.767	0.022	2.63
Gallium		112*			112*		
Iron	46.1	26.564	55.6	46.2	26.564	40.5	
Lead		0.340*	(<0.0003)		0.340*		
Magnesium		(<10*)			(<10*)		
Manganese	0.92	0.3806	0.652	0.91	0.3806	0.052	0.71
Molybdenum	0.36	2.723	1.15	0.36	2.723	0.014	0.23
Nickel	30.8	43.47	24.08	30.8	43.47	37.78	4.07
Niobium	(0.09)	0.458	0.067	(0.09)	0.458	2.99	0.15
Nitrogen		170*	(0.003)		170*		
Oxygen		50*			50*		
Phosphorus	0.017	0.0203	0.0239	0.018	0.0203	<0.003	0.013
Selenium		(<6*)			(<6*)		
Silicon	0.17	0.3234	0.411	0.18	0.3234	0.097	0.61
Silver		0.25*	(0.000025)		0.25*		
Sulfur	0.001	17*	0.00095	0.001	17*	0.0025	0.003
Tantalum		(<10*)	(<0.001)		(<10*)	0.003	
Tellurium		(<1*)			(<1*)		
Thallium		0.00223*			0.00223*		
Tin		(30*)	(<0.033)		(30*)		
Titanium	0.31	0.755	2.18	0.32	0.755	1.48	
Tungsten		56*	0.0695		56*		(0.1)
Vanadium		0.0478	0.229		0.0478	0.077	0.092
Zinc			(<0.018)				
Zirconium							(<0.01)

- Certified values are normal font

- Non-certified or reference values are italicized

- Non-certified values in parentheses are for information only