

101.6 - Stainless Steels (chip and powder 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.

Description >>	123c Stainless Steel, Cr-Ni-Nb (AISI 348)	133b Chromium-Molybdenum Steel	160b Stainless Steel (Cr 18-Ni 12-Mo 2) (AISI 316)	166c Low-Carbon Stainless Steel (AISI 316L) (chip form)	339 17 Chromium-9 Nickel-0.2 Selenium Steel	893 Stainless Steel (SAE 405)	895 Stainless Steel (SAE 201)
Unit of Issue >>	150 g	150 g	150 g	100 g	150 g	150 g	150 g
Elemental Composition (mass fraction in %)							
Aluminum						(0.20)	
Arsenic			0.01067				
Bismuth			(<0.0005)				
Boron							
Carbon	0.056	0.128	0.0445	0.00781	0.052	0.027	0.066
Chromium	17.40	12.63	18.37		17.42	13.55	16.72
Cobalt	0.12		0.1052		0.096	0.020	0.126
Copper	0.103	0.080	0.1734		0.199	0.261	0.439
Lead			(0.001)			(0.0001)	(0.0001)
Manganese	1.75	1.07	1.619		0.738	0.378	7.09
Molybdenum	0.22	0.052	2.386		0.248	0.023	0.337
Nickel	11.34	0.230	12.35		8.89	0.192	5.34
Niobium	0.65					(<0.0005)	(<0.009)
Nitrogen		(0.05)	(0.04)				
Phosphorus	0.024	0.018	0.0200		0.129	0.022	0.038
Selenium					0.247	(<0.0001)	(<0.0001)
Silicon	0.59	0.327	0.5093		0.654	0.326	0.399
Sulfur	0.014	0.328	0.0175		0.013	0.0003	0.0033
Tantalum	<0.001					(<0.001)	(<0.001)
Titanium						(0.01)	(<0.0004)
Tungsten			(0.11)				(0.03)
Vanadium		0.071	0.0508		0.058	0.080	0.079

- Certified values are normal font
- Non-certified or reference values are italicized
- Non-certified values in parentheses are for information only