

101.12 - Steelmaking Alloys (powder form)

These SRMs are intended for checking chemical methods of analysis for major constituents and selected minor elements. They are furnished as fine powders (usually <0.1 mm).

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.

Status	57b Now Selling	58a Now Selling	59a Now Selling	64c Now Selling	68c Now Selling	90 Now Selling	195 Now Selling	196 Now Selling	689 Now Selling
Description >>	Silicon Metal	Ferrosilicon (73% Si Regular Grade)	Ferrosilicon Grade E1 (powder form)	Ferrochromium High Carbon (powder form)	Standard Ferromanganese (powder form)	Ferrophosphorus (powder form)	Ferrosilicon (75% Si-High-Purity Grade)	Ferrochromium Low Carbon (powder form)	Ferrochromium Silicon
Unit of Issue >>	40 g	75 g	50 g	100 g	100 g	75 g	75 g	100 g	100 g
Elemental Composition (mass fraction in %)									
Aluminum	0.1690	0.953	0.354		(0.006)		0.0460		0.049
Arsenic		(0.002)			(0.003)	0.0212			(0.009)
Bismuth									(<0.003)
Boron	0.001443	(<0.003)	0.0578				0.00105		0.0017
Calcium	0.00222	0.271	0.0418				0.054		
Carbon		0.0143	0.0458	4.698		6.721	0.03445	0.0351	0.043
Chromium	0.00173	0.0193	0.0805	68.00		0.0744	0.0474	70.81	36.4
Cobalt	0.0015	(<0.03)		0.0515		(0.18)	(<0.01)		0.034
Copper	0.00172	0.0225	0.0520	0.0053			0.0468		0.013
Iron	0.3400	25.239	50.05	24.99		12.30	23.62		23.2
Lead									(0.004)
Manganese	0.00782	0.1611	0.754	0.1624		80.04	0.1710	(0.28)	0.32
Molybdenum		(<0.01)		(<0.001)			(0.01)		
Nickel	0.00153	0.0124	0.0328	0.429		(0.12)	0.0318	0.36	0.20
Nitrogen				0.0449					(0.002)
Oxygen	(0.4)	(0.25)		(0.12)		(0.11)	(<1)		(0.06)
Phosphorus	0.00163	0.0105	0.0158	0.0193		0.192	0.0190	0.0195	0.026
Silicon		73.13	48.10	1.216		0.2250	75.32	0.373	39.5
Sulfur	(0.003)	(<0.002)	(0.002)	0.0673		(0.008)	(<0.002)	0.003	0.002
Tin		(<0.005)		(<0.0005)			(<0.005)		
Titanium	0.0346	0.0510		0.0179			0.0367		0.40
Vanadium	0.0025	(0.002)		0.1528				(0.12)	0.09
Zirconium	0.00178	(<0.005)					0.0110		

- Certified values are normal font

- Non-certified or reference values are italicized

- Non-certified values in parentheses are for information only