

## 101.13 - Cast Irons (chip form)

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.

	<a href="#">4l</a>	<a href="#">5m</a>	<a href="#">6g</a>	<a href="#">107c</a>	<a href="#">115a</a>	<a href="#">122i</a>	<a href="#">334</a>	<a href="#">341</a>	<a href="#">342a</a>	<a href="#">892</a>
Description >>	Cast Iron (chip form)	Cast Iron	Cast Iron	Cast Iron (Ni-Cr-Mo)	Copper-Nickel-Chromium Cast Iron	Cast Iron	Gray Cast Iron	Ductile Cast Iron	Nodular Cast Iron (chip form)	High-Alloy White Cast Iron (Ni-Hard, Type IV)
Unit of Issue >>	150 g	150 g	150 g	150 g	150 g	150 g	150 g	150 g	150 g	150 g

### Elemental Composition (mass fraction in %)

<b>Al (total)</b>	(0.004)									(0.009)
<b>Arsenic</b>	(0.03)		0.042							(0.006)
<b>C Graphite</b>	2.66		2.01	1.98	1.96			1.23	1.377	
<b>C Total</b>	3.21	2.59	2.85	2.99	2.62	3.47	2.83	1.81	1.863	3.33
<b>Chromium</b>	0.118	0.080	0.370	0.693	1.98	0.151		1.98	0.0335	10.18
<b>Cobalt</b>										0.31
<b>Copper</b>	0.240	0.89	0.502	0.205	5.52	0.033		0.152	0.1347	0.270
<b>Iron</b>										(77.4)
<b>Lead</b>	(0.001)									
<b>Magnesium</b>								0.068	0.0700	
<b>Manganese</b>	0.825	0.74	1.05	0.480	1.00	0.530		0.92	0.2740	0.76
<b>Molybdenum</b>	0.040	0.029	0.035	0.83	0.050	0.008		0.010	0.0057	0.20
<b>Nickel</b>	0.042	0.041	0.135	2.20	14.49	0.047		20.32	0.0583	5.53
<b>Nitrogen</b>	(0.0016)	0.006	0.005							(0.019)
<b>Phosphorus</b>	0.149	0.32	0.557	0.079	0.086	0.28		0.024	0.0187	0.054
<b>S Comb</b>	0.043	0.133	0.124	0.059	0.065	0.087	0.043	0.007		0.015
<b>S Grav</b>					0.064			0.007		
<b>Silicon</b>	1.33	1.83	1.05	1.21	2.13	0.89		2.44	2.733	1.83
<b>Sulfur</b>									0.002141	
<b>Tin</b>	(0.004)									(0.02)
<b>Titanium</b>	(0.03)	0.097	0.059	0.019	0.020	0.024		0.018	0.0200	(0.02)
<b>Vanadium</b>	0.024	0.033	0.056	0.015	0.014	0.012		0.012		0.041
<b>Zinc</b>	(<0.001)									

- Certified values are normal font

- Non-certified or reference values are italicized

- Non-certified values in parentheses are for information only