

101.14 - Cast Steels, White Cast Irons, and Ductile Irons (disk and block form)

These SRMs are intended for analysis of cast steels and cast irons by rapid instrumental methods.

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	C1137a Now Selling	1138a Now Selling	C1145a Now Selling	1173 Now Selling	C1173 Now Selling	C1290 Now Selling	C1291 Now Selling	C1292 Now Selling	C2424 Now Selling
Description >>	White Cast Iron	Cast Steel Standard	White Cast Iron	Ni-Cr-Mo-V Steel	Cast Steel 3	High-Alloy White Cast Iron (HC-250+V)	High-Alloy White Cast Iron (Ni-Hard, Type I)	High-Alloy White Cast Iron I (Ni-Hard, Type IV)	Ductile Iron C
Unit of Issue >>	disk	block	disk	disk	disk	disk	disk	disk	disk

Elemental Composition (mass fraction in %)

Aluminum	(0.007)	(0.067)	(0.04)		(0.005)				(<0.01)
Arsenic		(<0.005)	(0.02)		(0.02)				
Boron									(0.002)
Carbon	2.86	0.118	2.92	0.423	0.453	3.04	2.67	3.47	2.68
Cerium	0.016								0.0046
Chromium	0.643	0.13	0.63	2.70	2.63	30.5	2.78	11.4	0.13
Cobalt			0.058	(0.064)	(0.064)				(0.05)
Copper	0.192	0.09	0.46	0.204	0.204	0.065	0.26	0.36	0.125
Iron		(98.7)							
Lanthanum									0.0011
Lead					(0.0006)				
Magnesium	0.032								0.006
Manganese	0.52	0.35	0.187	0.19	0.174	0.66	1.14	0.55	0.268
Molybdenum	0.86	0.05	0.48	1.50	1.46	(0.041)	0.32	0.25	0.019
Nickel	2.17	0.10	0.62	4.06	4.04	0.917	4.34	5.04	0.061
Niobium				(0.045)					
Phosphorus	0.087	0.035	0.215	0.033	0.031	0.030	0.028	0.049	0.041
Silicon	1.15	0.25	0.271	1.28	1.38	0.971	1.34	0.59	3.37
Sulfur	0.017	0.056	0.191	0.092	0.092	0.013	0.032	0.016	0.024
Titanium	(0.04)	(0.0012)	0.012	(0.015)	0.037				0.050
Vanadium	0.019	0.020	0.112	0.42	0.42	0.442	0.031	0.041	0.083

- Certified values are normal font

- Non-certified or reference values are italicized

- Non-certified values in parentheses are for information only