

Coal and coke reference materials

Mercury in coal

Our ISO 9001 produced mercury in coal reference materials provide certified analysis values for this carefully regulated element.



B2395 mercury in coal standard

The mercury in coal reference materials range have certified values for mercury ($\mu\text{g/g}$), % sulfur and % ash.

Reference only values are provided for chlorine ($\mu\text{g/g}$).

Our mercury in coal reference materials are supplied as finely ground powders, tested to ASTM specifications and are metrologically traceable through calibration to a primary standard e.g. NIST SRM 1633b. This information is provided on the certificate of analysis as well as expanded uncertainty for the values certified.

	Mean Value	Expanded Uncertainty $k=2, @ 95\%$	ASTM Method(s)	Traceability
$\mu\text{g/g}$ Mercury	0.071	$\pm 0.004 \mu\text{g/g}$	D6722	NIST: 1632d, 2693, 2691, 2682c, 2685c, 2684c, 2683c, 2692c, 2709 SARM 20, CRM 7
$\mu\text{g/g}$ Chlorine	(1645)	(± 138)	D6721	NIST: 2692c, 2693, 2682c
% Sulphur	1.50	± 0.03	D4239	NIST: 1632d NCS: FC28010e, FC28004f
Percent Ash	4.47	± 0.04	D7582, D3174	Gravimetric consensus
% Carbon	79.18	± 1.60	D5373	High Purity Organic Analytical Standards
% Hydrogen	5.23	± 0.07	D5373	High Purity Organic Analytical Standards
% Nitrogen	(1.70)	(± 0.19)	D5373	High Purity Organic Analytical Standards

NOTE: all are Dried Basis Values – () Indicates reference only values

The intended use of this reference material is for the quality validation of Mercury, Chlorine, Sulphur, Ash, Carbon, Hydrogen, and Nitrogen in coal by ASTM or other valid test methods. The analytical values were derived by a consensus of analytical testing, and reported in mass fraction. The sample size used and minimum sample size is dependent upon your test method or instrument manufacturer recommendations. The precision value represents the

Mercury ($\mu\text{g/g}$)	Chlorine ($\mu\text{g/g}$)	% Sulfur	% Ash	% Carbon	% Hydrogen	% Nitrogen	Part no.
0.04	(1713)	0.77	6.45				B2396
0.071	(1645)	1.50	4.47	79.18	5.23	(1.70)	B2395
0.10	(<0.01)	0.45	7.64				B2397
0.12	(<0.01)	1.17	10.31				B2398

(analysis value) for reference only

We also supply competitively priced coal standards certified only for sulfur, as well as more detailed proximate and ultimate coal certified reference materials.

The full range of coal and coke reference materials along with their current certified values can be [downloaded from our website](#).

Available to order from our ISO 9001 factory online, by email, telephone or fax. Elemental Microanalysis offers extensive knowledge of analysis, over 40 years of experience and a worldwide reputation for excellence.

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