

Introduction to coal and coke reference materials

Elemental Microanalysis has a large range of ISO 9001 produced coal and coke reference materials:

- Sulfur only coals and cokes
- Proximate coals
- Green petroleum cokes
- Ultimate coals
- Mercury in coal



Each group offers a different set of analysis values, a simplified summary is detailed below.

B2301 sulfur in coal reference material

Reference material product group	% Sulfur	% Ash	% Vol. matter	BTU/lb	% Fixed carbon	% Carbon	% Hydrogen	% Nitrogen	% Oxygen	Mercury (µg/g)	Chlorine (µg/g)	Additional minerals (%/µg/g)	Ash fusion temps (°F)	Sulfur forms (%)
Sulfur only coals and cokes	✓													
Proximate coals	✓	✓	✓	✓	✓*									
Petroleum cokes	✓	✓*	✓	✓	✓*	✓	✓	✓				✓		
Ultimate coals	✓	✓	✓	✓	✓*	✓	✓	✓	✓*		✓*	✓	✓*	✓*
Mercury in coal	✓									✓	✓			

*calculated

The coal and coke CRMs are supplied as finely ground powders, tested to ASTM specifications and are metrologically traceable through calibration to a primary standard e.g. NIST SRM 2682c (some exceptions). This information is provided on the certificate of analysis as well as expanded uncertainty for the values certified.

The full range of reference materials along with their current certified values can be [downloaded from our website](#). These CRMs are predominantly secondary measurement standards (ISO guide 30).

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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