

Coal and coke reference materials

Green petroleum cokes

Our ISO 9001 produced green petroleum coke reference materials provide the most detailed analysis of all our cokes.



B2318 petroleum coke standard

The green petroleum coke reference materials range have certified values for sulfur, % ash, % volatile matter, British thermal unit/lb and % fixed carbon*, carbon, hydrogen, nitrogen and mineral analysis (nickel, iron, vanadium, calcium and silicon) on the certificate of analysis.

Our green petroleum coke certified reference materials (green petroleum coke) are supplied as finely ground powders, tested to ASTM specifications and are metrologically traceable through calibration to a primary standard e.g. NIST SRM 2718a. This information is provided on the certificate of analysis as well as expanded uncertainty for the values certified.



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Certificate of Analysis
Part No. B2318
Green Petroleum Coke Standard

Certificate Number 747919
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All analysis reported on dry basis value	Mean	Exp. Unc.	n=	k=	Method used
Mass Fraction percent Sulphur	3.66	±0.12	31	2.04	ASTM D4239, D1552
Mass Fraction percent Ash	0.41	±0.04	6	2.57	ASTM D3174, D4422
Mass Fraction percent volatile matter	10.97	±0.45	6	2.57	ASTM D3175, D7582
Mean BTU/Pound	14,919	±98	6	2.57	ASTM D5865
Fixed Carbon (Calculated)	(88.62)	-	-	-	ASTM D3172
Mass Fraction Percent Carbon	88.46	±1.97	6	2.57	ASTM D5373
Mass Fraction Percent Hydrogen	3.11	±0.15	6	2.57	ASTM D5373
Mass Fraction Percent Nitrogen	1.45	±0.2	6	2.57	ASTM D5373
PPM-ug/g Nickel	203	±17	6	2.57	ASTM D5056, D6357, D5600
PPM-ug/g IRON	492	±60	6	2.57	ASTM D5056, D6357, D5600
PPM-ug/g Vanadium	794	±72	6	2.57	ASTM D5056, D6357, D5600
PPM-ug/g Calcium	241	±10	6	2.57	ASTM D5056, D6357, D5600
PPM-ug/g Silicon	418	±61	6	2.57	ASTM D5056, D6357, D5600
PPM-ug/g Aluminium	146	±68	6	2.57	ASTM D5056, D6357, D5600
PPM-ug/g Phosphorus	19	±9	6	2.57	ASTM D5056, D6357, D5600
PPM-ug/g Sodium	51	±18	6	2.57	ASTM D5056, D6357, D5600
PPM-ug/g Zinc	(7)	-	-	-	ASTM D6357, D5600
PPM-ug/g Chlorine	(31)	-	-	-	ASTM D6721, D4208
PPM-ug/g Fluorine	(26)	-	-	-	ASTM D5987, D3761

Numbers in brackets are for reference only.

This Reference Material is traced to NIST SRM 2718a, 1633c, 2693, 2682b, 1632d, SARM 18; High purity materials: Phenylalanine, EDTA. The BTU is traceable to Benzoic Acid NIST 39j.

*calculated

% S	% Ash	% Vol. matter	BTU/lb	% Fixed carbon*	% C	% H	% N	Additional minerals (% / µg/g)	Part no.
3.66	0.41	10.97	14919	88.62	88.46	3.11	1.45	✓	B2318
5.00	0.60*	6.85	14204	92.55	87.89	1.89	1.79	✓	B2319
1.11	0.14*	12.91	15697	86.95	91.58	1.91	0.80	✓	B2352
5.43	0.09*	5.79	14861	94.12	95.92	1.91	0.80	✓	B2353

We also supply competitively priced metallurgical and green petroleum coke standards certified only for sulfur. Sulfur values span 0.43% to 5.43%.

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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