

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 Green petroleum coke

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 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 2718a. This information is provided on the certificate of analysis as well as expanded uncertainty for the values certified.

*calculated **For reference only

		Certificate of Analysis Part No. B2318 Green Petroleum Coke Standard	
Okehampton Business Park Exeter Road Okehampton Devon EX20 1UB Telephone: 01837 54446 Fax: 01837 54544 Web: www.elementalmicroanalysis.com		Certificate Number Page	747919 1 of 1
All analysis reported on dry basis value			
Mean	Exp. Unc.	n=	k=
Mass Fraction percent Sulphur	3.66 ±0.12	31	2.04
Mass Fraction percent Ash	0.41 ±0.04	6	2.57
Mass Fraction percent volatile matter	10.97 ±0.45	6	2.57
Mean BTU/Pound	14,919 ±98	6	2.57
Fixed Carbon (Calculated)	(88.62)	-	-
Mass Fraction Percent Carbon	88.46 ±1.97	6	2.57
Mass Fraction Percent Hydrogen	3.11 ±0.15	6	2.57
Mass Fraction Percent Nitrogen	1.45 ±0.2	6	2.57
PPM-ug/g Nickel	203 ±17	6	2.57
PPM-ug/g IRON	492 ±60	6	2.57
PPM-ug/g Vanadium	794 ±72	6	2.57
PPM-ug/g Calcium	241 ±10	6	2.57
PPM-ug/g Silicon	418 ±61	6	2.57
PPM-ug/g Aluminium	146 ±68	6	2.57
PPM-ug/g Phosphorus	19 ±9	6	2.57
PPM-ug/g Sodium	51 ±18	6	2.57
PPM-ug/g Zinc	(7)	-	-
PPM-ug/g Chlorine	(31)	-	-
PPM-ug/g Fluorine	(26)	-	-
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			

% S	% Ash	% Vol. matter	BTU/lb	% Fixed carbon*	% C	% H	% N	PPM V	PPM Ni	PPM Fe	PPM Ca	PPM Si	Part no.
3.66	0.41	10.97	14919	88.62	88.46	3.11	1.45	794	203	492	241	418	B2318
5.00	0.60*	6.85	14204	92.55	87.89	1.89	1.79	1651	281	282	91	343	B2319
1.11	0.14*	12.91	15697	86.95	91.58	1.91	0.80	111	188	254	62	156	B2352
5.43	0.09*	5.79	14861	94.12	95.92	1.91	0.80	40**	93**	227	34**	64**	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 and 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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