



Certificate of Analysis

AR-734

PROXIMATE COKE CRM

LOT # 341223

LID # 721223

DRIED BASIS VALUE

Proximate Analysis		n=	k=	ASTM
% Ash.....	9.58 ± 0.15	21	2.1	D3174/D7582
% Volatile Matter.....	(0.54)	--	--	D3175/D7582
% Fixed Carbon(calculated)	(89.88)	--	--	D3172
% Sulfur.....	0.77 ± 0.03	40	2.0	D4239
Btu/lb.....	12807 ± 482	8	2.4	D5865

() - indicates informational value only.

*Note: Proper technique and complete combustion is required. Exceeds method reproducibility.

References used: Sulfur – SRM 2692c, 2682c, 1632d, NCS FC28006j.
BTU- Benzoic Acid SRM 39j

The intended use of this standard is for the verification of various tests by the above-mentioned methods. Typical sample size for analytical testing and minimum size is subject to the test method and instrumentation used. The uncertainty values represent the expanded uncertainty at a 95% confidence level obtained through analytical testing by the mentioned ASTM methods utilizing ANOVA, ISO Guide 35, and the Guide to Uncertainty Measurement. Metrological traceability is to the SI derived units expressed as mass fraction percent, or BTU/lb. Normal test procedures should be employed when using this standard; this includes using the *reproducibility* and *repeatability* factors of the method for establishing analytical uncertainty if needed. When necessary, professional judgment is applied toward consideration of data and statistical information. The statistical analysis and the overall direction and coordination of the analytical measurements leading to certification were performed by K.E. Dyer, Chief Chemist at Alpha Resources.

The material used in production of this standard was prepared and sampled in accordance with ARI-LAB-603. The samples for round-robin testing were selected in accordance with ARI-LAB-625. The above values relate only to the material used to produce this standard. The analytical samples should be dried or corrected for moisture as per the test method you are using. This bottle contains 50g fine coke powder (-60 mesh). Values are valid for 15 years from the date of certification. Keep sealed tight and store under normal laboratory conditions. This certificate cannot be reproduced except in full. Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Alpha Resources be liable for incidental or consequential damages.

This is a Certified Reference Material (CRM) and is traceable to the above-mentioned references. For good laboratory practice it is recommended that all standards be verified as fit for purpose prior to use. This standard was produced in accordance with and accredited under ISO17034 (RMP) accreditation issued by ANSI National Accreditation Board. Refer to certificate and scope of accreditation AR1920.

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CERTIFIED March 26, 2024

Kent Dyer

Chief Chemist

Updated: 2025/02/11