

# Alpha Resources, Inc. Certificate Of Analysis

AR 720

COKE STANDARD

LOT # 720210      LID ID 720210

## DRIED BASIS VALUE

MEAN WEIGHT PERCENT SULFUR      =      1.21

STANDARD DEVIATION                      =      0.02

### METHOD:

ASTM D 4239-02 Method B AND ARI-035

This Certified Reference Material is traced to:

NIST	2776
NCS	FC93005

The analytical values were derived by a number of data points (n=30). The precision value represents the expanded degree of uncertainty based on errors from analytical assay at a 95% confidence level (k=2). 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 at Alpha Resources. Normal ASTM procedures should be employed when using this standard, this includes using the *reproducibility* and *repeatability* factors of the method for establishing analytical uncertainty.

The samples for round robin testing were selected in accordance with ARI 014. The above values relate only to the material used to produce this standard. The analytical samples were dried under a nitrogen atmosphere for a minimum of 70 minutes at 107° C +/- 3° C until a steady mass is achieved

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. The above values relate only to the material used to produce this standard. This certificate cannot be reproduced except in full.

This is a Certified Reference Material (CRM), and is traceable to the above-mentioned standards. For good laboratory practice it is recommended that all standards be verified prior to use. This calibration standard is accredited and meets the requirements of ISO/IEC17025 as verified by the ANSI-ASQ National Accreditation Board. Contact Alpha Resources for details of our certification and scope of accreditation.

## EXPIRATION DATE

**THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF OPENING**

Certified February 24, 2010



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