



**Certificate of Analysis**  
**Part No. B2309**  
**Coal Standard**

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**Dried Basis Value**

**Weight Percent Sulphur = 3.54**  
**Expanded Uncertainty = ±0.04**

Method  
ASTM D 4239-17 and ARI-035

Traceable to N.I.S.T. SRM 2685c, SRM2684c, NCS FC28009f, FC28012c, AR1710-101112, AR1709-709714, AR1709-709512

Notes

The intended use of this reference material is for the calibration and quality validation of sulphur by resistance furnace combustion, infra-red detection analysis as specified by ASTM D4239 or other valid test methods. The analytical values were derived by a number of data points (n=40) and reported in mass fraction. The sample size used and minimum sample size is approximately 300-500mg. The precision value represents the expanded degree of uncertainty based on errors from analytical assay at a 95% confidence level (k=2). Formal testing procedures should be followed when using this standard; this includes using the reproducibility and repeatability factors of the method for establishing overall analytical uncertainty. When necessary, professional judgment is applied toward consideration of data and statistical information.

The material used in production of this reference standard was identified in accordance with ARI 041. The samples for round robin testing were selected in accordance with ARI 031. The above values relate only to the material used to produce this standard. The analytical samples were dried per the NMI used or corrected for moisture as per the test method. Keep sealed and store under normal laboratory conditions.

Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Elemental Microanalysis Ltd be liable for incidental or consequential damages. The above values relate only to the material used to produce this standard. This bottle contains 50g, minus 60 mesh (250 micron) coal powder. While unable to determine a definite shelf life, this reference standard should be reviewed 20 years from the date of certification. Once opened this certificate is valid for two years. This is a Reference Material is traceable to the above-mentioned standards. For good laboratory practice, it is recommended that all standards be verified as fit for purpose prior to use.

EXPIRATION DATE - VALID FOR TWO YEARS FROM THE DATE OF OPENING

Certified January 21, 2019

Elemental Microanalysis Limited