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## Certificate of Analysis Part No. B2328 Ultra Low Sulphur Coal Standard

Certificate Number 685720 Page 1 of 1

## **Dried Basis Value**

Weight Percent Sulphur = 0.146Expanded Uncertainty =  $\pm 0.010$ (n=32)

METHOD: ARI-LAB-616
Combustion under Oxygen by Resistance Furnace with IR Detection \*ASTM D4239-18 (below method scope range)

This Reference Material is traced to NIST SRM 2682a (gravimetric dilution), NCS FC28113, NCS FC28003F AR1685-685610, AR1685-685414, AR1684-841019

The intended use of this certified 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. This Reference Material (RM) was prepared by gravimetric blending and verified by analysis. The typical sample size used and minimum sample size for analysis 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) utilizing ISO Guide 35, ANOVA, and the Guide to Uncertainty Measurement. Metrological traceability is to the SI derived unit of mass fraction expressed as percent. When necessary, professional judgment is applied toward consideration of data and statistical information. This RM is below actual test method limits and no known NMI references at this concentration are available.

The material used for this standard was identified by ARI-LAB-603. The samples for testing were selected in accordance with ARILAB-625. The analytical samples were dried under a nitrogen atmosphere for a minimum of 30 minutes at  $107^{\circ}$  C  $\pm$  3°C, or until a steady mass is achieved. This bottle contains 50g fine -60 mesh (250µm) powder to be used per your test method. Values are valid for 15 years from the date of certification. Keep sealed immediately after use 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 reference. This certificate cannot be reproduced except in full.

This RM is traceable to the above-mentioned reference material(s). For good laboratory practice, it is recommended that all reference materials be verified as fit for purpose prior to use.

Certified October 28, 2020

Elemental Microanalysis Limited