

**Certificate of Analysis
Part No. B2805
Proximate Coal Standard**

Certificate Number 241014
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Dried Basis Value – Mass Fraction

Mean Weight % Sulphur	=	1.42
Expanded Uncertainty	=	0.04
Mean Weight % Ash	=	17.26
Expanded Uncertainty	=	0.78
Mean Weight % Vol. Matter	=	32.27
Expanded Uncertainty	=	2.1
BTU/lb	=	12216
Expanded Uncertainty	=	145
Fixed Carbon (calculated)	=	50.47

Methods Employed:	
Sulphur	ASTM D 4239
Ash	ASTM D 3174, D7582
Vol. Matter	ASTM D 3175, D7582
BTU	ASTM D 5865

The material used in production of this standard was evaluated and identified in accordance with ARI 041. The precision values represents expanded uncertainty ($k=2$, 95% confidence limit) obtained from analytical testing. Normal testing procedures should be followed when using this standard; this includes using the *reproducibility* and *repeatability* factors for establishing overall analytical uncertainty.

The samples used 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 or calculated for moisture as per the test method. This bottle contains 50g, fine mesh ($-250\ \mu$) coal powder. Values are valid for 15 years from the date of certification. Keep closed 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.

This is a Certified Reference Material (working standard). For good laboratory practice it is recommended that all standards be verified prior to use.

Elemental Microanalysis Limited

Certified November 21, 2014