

**Certificate of Analysis  
Part No. B2803  
Proximate Coal Standard**

Certificate Number 722719  
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**Dried Basis Value**

<b>Proximate Analysis</b>			<b>ASTM</b>
<b>% Ash</b>	=	<b>10.02 ± 0.26</b>	<b>D3174/D7582</b>
<b>% Volatile Matter</b>	=	<b>35.80 ± 2.52</b>	<b>D3175/D7582</b>
<b>% Fixed Carbon (calculated)</b>	=	<b>(54.18)</b>	<b>D3172</b>
<b>% Sulphur</b>	=	<b>1.12 ± 0.04</b>	<b>D4239</b>
<b>BTU/lb</b>	=	<b>12533 ± 151</b>	<b>D5865</b>

References used: Sulphur – NIST SRM 2692, 2693, 2692C; BTU -Benzoic Acid NIST 39j

**Notes:**

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 ( $k=2$ , @95% confidence) obtained through analytical testing. 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 material used in production of this standard was prepared and sampled 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 should be dried or corrected for moisture as per the test method you are using. This bottle contains 50g fine coal powder (-60 mesh). 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. Keep sealed tight 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 Reference Material and is traceable to the above-mentioned references. For good laboratory practice it is recommended that all standards be verified prior to use.

Elemental Microanalysis Limited

This CRM is valid for two years from the date of opening

Certified July 24, 2019