Alpha Resources, Inc. Certificate Of Analysis

AR-1723

PROXIMATE COAL STANDARD

LOT #231012 LID # 231012 DRIED BASIS VALUE

MEAN WEIGHT % SULFUR	=	1.20	
EXPANDED UNCERTAINTY	=	0.04	
MEAN WEIGHT % ASH	=	6.67	
EXPANDED UNCERTAINTY	=	0.28	
MEAN WEIGHT % VOL. MATTER	=	42.29	
EXPANDED UNCERTAINTY	=	1.57	
BTU/BTU MAF	=	12937	13862
EXPANDED UNCERTAINTY	=	93	124

FIXED CARBON (calculated) = 51.04 NIST Standards used: SRM 1632d, 2692c, 2682b, 2685b, 2692b

Methods Employed:

SULFUR	ASTM	D 4239
ASH	ASTM	D 3174, D5142
VOL. MATTER	ASTM	D 3175, D5142
BTU	ASTM	D 5865

Notes:

The material used in production of this standard was sampled in accordance with ARI 031. The precision values represent the expanded uncertainty (k=2, 95% confidence) obtained through analytical testing, and are given for reference only. Normal ASTM procedures should be employed when using this standard, this includes using the *reproducibility* and *repeatability* factors of the test method for establishing analytical uncertainty. 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.

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 or corrected for moisture as per the test method(s), or per the SRM certificate.

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

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

CERTIFIED November 1, 2012

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