

Alpha Resources, Inc.

Certificate Of Analysis

AR1721

COAL STANDARD

LOT #721400

LID ID 721400

DRIED BASIS VALUE

MEAN WEIGHT % SULFUR	=	0.46
STANDARD DEVIATION	=	0.03
MEAN WEIGHT % ASH	=	7.40
STANDARD DEVIATION	=	0.20
MEAN WEIGHT % VOL. MATTER	=	42.67
STANDARD DEVIATION	=	1.04
BTU	=	11,688
STANDARD DEVIATION	=	69
FIXED CARBON	=	49.93

Methods Employed:

SULFUR	ASTM	D 4239 METHOD C
ASH	ASTM	D 3174
VOL. MATTER	ASTM	D 3175
BTU	ASTM	D 3286

Notes:

The certified mean values were statistically derived from the values reported to Alpha Resources through Round Robin.

Normal ASTM procedures should be employed when using this standard. This includes using the *reproducibility* and *repeatability* factors. Use the reproducibility factor when establishing the first set of data, and then establish an internal repeatability factor as your guideline.

The statistical analysis and overall coordination leading to certification was performed by D.M. Reasons at Alpha Resources.

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 (CRM) and should be verified, prior to use, against a primary standard material provided by a governing agency such as N.I.S.T., when available.

EXPIRATION DATE

THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF PURCHASE WHICH

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www.alpharesources.com

Page 1 Of 1

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