

Alpha Resources, Inc. Certificate Of Analysis

MOVED TO OLD CERTS ON 6-21-01

AR1723

COAL STANDARD

LOT #723298

LID ID 723298

DRIED BASIS VALUE

MEAN WEIGHT % SULFUR	=	1.20
STANDARD DEVIATION	=	0.03
MEAN WEIGHT % ASH	=	9.59
STANDARD DEVIATION	=	0.24
MEAN WEIGHT % VOL. MATTER	=	37.54
STANDARD DEVIATION	=	0.32
BTU	=	13,395
STANDARD DEVIATION	=	121
FIXED CARBON	=	52.87

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
APPEARS ON THE BOTTLE**

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www.alpharesources.com

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DM Powers

