

Alpha Resources, Inc.

Certificate Of Analysis

AR-1907

COAL STANDARD

LOT # 071112 LID # 778110

DRIED BASIS VALUE

WEIGHT PERCENT CARBON	=	62.34
STANDARD DEVIATION	=	2.0
WEIGHT PERCENT HYDROGEN	=	3.31
STANDARD DEVIATION	=	0.21
WEIGHT PERCENT NITROGEN	=	1.01
STANDARD DEVIATION	=	0.24

Method:
ASTM D 5373

The material used in production of this standard was sampled in accordance with ARI 031. The uncertainty values represent the expanded standard deviation ($k=2$, two sigma, 95% confidence) obtained through analytical testing, and may not reflect your testing capabilities. Normal ASTM procedures should be employed when using this standard, this includes using the *reproducibility* and *repeatability* factors of the 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 7, 2012



P.O. Box 199 3090, Johnson Road Stevensville, MI 49127 USA Phone (269) 465-5559 Fax (269) 465-3629
www.alpharesources.com

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