

# Alpha Resources, Inc. Certificate Of Analysis

AR-2753

## MINERAL ANALYSIS STANDARD

LOT # 7697

LID ID 277697

### WEIGHT PERCENT MINERAL ANALYSIS OF ASH

SILICON DIOXIDE	=	54.08
ALUMINUM DIOXIDE	=	34.47
TITANIUM DIOXIDE	=	1.15
FERRIC OXIDE	=	4.41
CALCIUM OXIDE	=	1.44
MAGNESIUM OXIDE	=	0.57
POTASSIUM OXIDE	=	1.24
SODIUM OXIDE	=	0.29
SULFUR TRIOXIDE	=	0.62
PHOSPHORUS PENTOXIDE	=	0.59
STRONTIUM OXIDE	=	0.24
BARIUM OXIDE	=	0.15
MANGANESE OXIDE	=	0.14
UNDETERMINED	=	0.00

The ash content of the whole coal is 11.62%

#### Methods

ASTM D 3174

ASTM D 2795

#### Notes

The statistical, overall direction and coordination of the analytical measurements leading to certification were 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**

P.O. Box 199 3090 Johnson Road Stevensville, MI 49127 USA Phone (

[www.alpharesources.com](http://www.alpharesources.com)

Page 1 Of 1



3629