

Alpha Resources, Inc. Certificate Of Analysis

AR-2751

MINERAL ANALYSIS STANDARD

LOT # 729106

LID # 729106

WEIGHT PERCENT MINERAL ANALYSIS OF ASH

SILICON DIOXIDE	=	50.27
ALUMINUM DIOXIDE	=	25.07
TITANIUM DIOXIDE	=	1.30
FERRIC OXIDE	=	17.18
CALCIUM OXIDE	=	1.20
MAGNESIUM OXIDE	=	0.82
POTASSIUM OXIDE	=	2.50
SODIUM OXIDE	=	0.25
SULFUR TRIOXIDE	=	0.73
PHOSPHORUS PENTOXIDE	=	0.20
STRONTIUM OXIDE	=	0.06
BARIUM OXIDE	=	0.10
MANGANESE OXIDE	=	0.04
UNDETERMINED	=	0.28

The ash content of the whole coal is 23.2%

Methods

ASTM D 3174

ASTM D 3682

The material used in production of this standard was sampled in accordance with ARI 031. The above values relate only to the material used to produce this standard.

The overall direction and coordination of the analytical measurements leading to certification were performed by J.R. Shingledecker 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). 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 PURCHASE WHICH
APPEARS ON THE BOTTLE

J.R. Shingledecker

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

www.alpharesources.com

Page 1 Of 1