

# Alpha Resources, Inc. Certificate Of Analysis

MINERAL ANALYSIS STANDARD

AR 2760

LOT 90 Lid ID 290

MINERAL ANALYSIS OF ASH

MINERAL COMPOUND      % WEIGHT (IGNITED BASIS)

SILICON DIOXIDE.....	49.48
ALUMINUM DIOXIDE.....	27.36
TITANIUM DIOXIDE.....	1.33
FERRIC OXIDE.....	15.16
CALCIUM OXIDE.....	1.07
MAGNESIUM OXIDE .....	0.77
POTASSIUM OXIDE .....	2.47
SODIUM OXIDE .....	0.16
SULFUR TRIOXIDE.....	0.39
PHOSPHORUS PENTOXIDE.....	0.30
STRONTIUM OXIDE .....	0.07
BARIUM OXIDE.....	0.00
MANGANESE OXIDE.....	0.11
UNDETERMINED .....	1.33

THE ASH CONTENT OF THE WHOLE COAL WAS 15.00%  
THE SAMPLE WAS ASHED BY ASTM D 3174  
THE ANALYSIS OF THE ASH WAS DONE BY ASTM D3174 AND D2795

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 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.

EXPIRATION DATE  
THIS CRM IS VALID FOR TWO YEARS FROM DATE OF OPENING

