

Alpha Resources, Inc. Certificate Of Analysis

MINERAL ANALYSIS STANDARD

AR 2752A
LOT # 752102
LID # 752102

MINERAL ANALYSIS OF ASH

| MINERAL COMPOUND | % WEIGHT (IGNITED BASIS) |
|------------------|--------------------------|
|------------------|--------------------------|

| | |
|---------------------------|-------|
| SILICON DIOXIDE..... | 40.10 |
| ALUMINUM DIOXIDE..... | 14.44 |
| TITANIUM DIOXIDE..... | 1.98 |
| FERRIC OXIDE..... | 4.89 |
| CALCIUM OXIDE..... | 20.84 |
| MAGNESIUM OXIDE | 4.59 |
| POTASSIUM OXIDE | 0.26 |
| SODIUM OXIDE | 0.33 |
| SULFUR TRIOXIDE..... | 10.45 |
| PHOSPHORUS PENTOXIDE..... | 0.30 |
| STRONTIUM OXIDE | 0.09 |
| BARIUM OXIDE..... | 0.07 |
| MANGANESE OXIDE..... | 0.03 |
| UNDETERMINED | 1.63 |

THE SAMPLE WAS ASHED BY ASTM D 3174
THE ANALYSIS OF THE ASH WAS DONE BY ASTM D3174 AND D2795

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 was 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

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