

# Alpha Resources, Inc. Certificate Of Analysis

AR 756

**GREEN PETROLEUM COKE STANDARD**

**LOT # 700 LID ID 700-92**

**ALL ANALYSIS REPORTED ON A DRIED BASIS VALUE**

|                               |   |        |
|-------------------------------|---|--------|
| MEAN WEIGHT PERCENT SULFUR    | = | 6.23   |
| MEAN WEIGHT PERCENT ASH       | = | 0.81   |
| MEAN WEIGHT PERCENT VOL. MAT. | = | 5.97   |
| BTU/POUND                     | = | 14,059 |
| MEAN WEIGHT PERCENT CARBON    | = | 88.32  |
| MEAN WEIGHT PERCENT HYDROGEN  | = | 1.19   |
| MEAN WEIGHT PERCENT NITROGEN  | = | 1.78   |
|                               |   |        |
| PARTS PER MILLION NICKEL      | = | 297    |
| PARTS PER MILLION IRON        | = | 653    |
| PARTS PER MILLION VANADIUM    | = | 1451   |
| PARTS PER MILLION CALCIUM     | = | 41     |
| PARTS PER MILLION SILICON     | = | 670    |

Methods:

ASTM D 4239 Method C

ASTM D 4422

ASTM D 4421

ASTM D 5373

ASTM D 5056

Notes:

The certified mean values were statistically derived from the values reported to Alpha Resources through Round Robin.

The statistical analysis and overall coordination leading to certification was 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 THE DATE OF PURCHASE WHICH**  
**APPEARS ON THE BOTTLE**

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