

# Alpha Resources, Inc. Certificate Of Analysis

AR 742B

GREEN PETROLEUM COKE STANDARD

LOT # CHAL196

LID ID CHAL 196

ALL ANALYSIS REPORTED ON A DRIED BASIS VALUE

MEAN WEIGHT % SULFUR	=	0.89	MEAN WEIGHT % NICKEL	=	0.0068
STANDARD DEVIATION	=	0.02	STANDARD DEVIATION	=	0.0014
MEAN WEIGHT % ASH	=	0.09	MEAN WEIGHT % IRON	=	0.0129
STANDARD DEVIATION	=	0.02	STANDARD DEVIATION	=	0.0026
MEAN WEIGHT % VOL. MAT.	=	9.67	MEAN WEIGHT % VANADIUM	=	0.0022
STANDARD DEVIATION	=	0.18	STANDARD DEVIATION	=	0.0003
MEAN WEIGHT % CARBON	=	93.81	MEAN WEIGHT % CALCIUM	=	0.0037
STANDARD DEVIATION	=	0.46	STANDARD DEVIATION	=	0.0009
MEAN WEIGHT % NITROGEN	=	1.27	MEAN WEIGHT % SILICON	=	0.0081
STANDARD DEVIATION	=	0.13	STANDARD DEVIATION	=	0.0009
MEAN WEIGHT % HYDROGEN	=	3.76			
STANDARD DEVIATION	=	0.02			

Methods:

ASTM D 4239 Method C

ASTM D 3174-89

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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