

# Alpha Resources, Inc. Certificate Of Analysis

AR 306

NODULAR IRON STANDARD  
LOT # 71901

**% CARBON**  
MEAN = 3.56  
ONE SIGMA = 0.04  
TWO SIGMA = 0.08  
RANGE = 3.48 – 3.64

**% SULFUR**  
MEAN = 0.014  
ONE SIGMA = 0.001  
TWO SIGMA = 0.002  
RANGE = 0.012 – 0.016

Method of Analysis is Combustion / IR Detection  
ASTM E 1019 (Latest Revision)

**Standards Employed:**

NIST	4k
JSS	102-6
CTIF	FB-10-1
NCS	16011, 56005
EURO	227

**Notes:**

The statistical data was derived by a number of analyses provided by separate instruments over different days.

The precision values represent the standard deviation, two times the standard deviation, and complete range of analyses.

The statistical analysis of the certification was performed by K.E. Dyer at Alpha Resources.

The overall direction and coordination of the analytical measurements leading to certification were performed by K.E. Dyer 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), and is traceable to the above-mentioned standards. For good laboratory practice it is recommended that all standards be verified prior to use.

Certified September, 2001



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