

# Alpha Resources, Inc.

## Certificate Of Analysis

AR 305  
IRON STANDARD  
LOT # 90701

% CARBON  
MEAN = 2.79  
ONE SIGMA = 0.03  
TWO SIGMA = 0.06  
RANGE = 2.73 – 2.85

% SULFUR  
MEAN = 0.012  
ONE SIGMA = 0.001  
TWO SIGMA = 0.002  
RANGE = 0.010 – 0.014

Method of Analysis is Combustion / IR Detection  
ASTM E 1019-00

### Standards Employed:

NIST	4L, 107c, 50c, 131c
JSS	111-12
EURO	230, 215

### 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 and 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.

This standard was produced in accordance to Guide 34. Alpha Resources has become accredited under the ISO Guide 34:2009 for RMP and holds a ISO 17025 accreditation. Refer to certificate and scope of accreditation for details.

Certified September, 2001



Kent Dyer - Technical Manager