

# **Alpha Resources, Inc.**

## **Certificate Of Analysis**

AR 894

CARBON STEEL PIN STANDARD

LOT # T39074299

**% CARBON**  
**MEAN = 0.544**  
**ONE SIGMA = 0.003**  
**TWO SIGMA = 0.006**  
**RANGE = 0.537 – 0.551**

**% SULFUR**  
**MEAN = 0.0096**  
**ONE SIGMA = 0.0007**  
**TWO SIGMA = 0.0014**  
**RANGE = 0.0082 – 0.0110**

Method of Analysis is ASTM E 1019-00

Primary Standards Employed:

NIST  
JSS

13g, 73c, 343a, 2160  
150-14

Notes:

The mean analytical values were derived by a number of data sets utilizing various ASTM approved instruments.

The precision values represent the standard deviation, two times the standard deviation, and complete range of analysis. When necessary, professional judgment is applied toward consideration of data and statistical information.

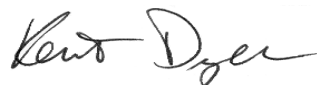
The statistical analysis and the overall direction and coordination of the analytical measurements leading to certification were performed by K.E. Dyer at Alpha Resources.

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 April, 2000



Kent Dyer - Technical Manager