

# Alpha Resources, Inc.

## Certificate Of Analysis

AR 892  
STAINLESS STEEL PIN STANDARD  
LOT # 409303908

**% CARBON**  
MEAN = 0.0054  
ONE SIGMA = 0.0006  
TWO SIGMA = 0.0012  
RANGE = 0.0042 to 0.0066

**% SULFUR**  
MEAN = 0.0021  
ONE SIGMA = 0.0003  
TWO SIGMA = 0.0006  
RANGE = 0.0015 to 0.0027

Method of Analysis is ASTM E 1019-03 and ARI 033

Primary Standards Employed:

NIST	2165, 166c, 348, 131c, 2159
JSS	244-5
NCS	HC24521, HC11001, HC24502, HC20504
IPT	73
BCS	260/4

### Notes:

The mean analytical values were derived by a number of data sets (n=40) by various instrumentation meeting ASTM E1019-03. 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.

The material used in production of this standard was sampled in accordance with ARI 032. The samples for round robin testing were selected in accordance with ARI 014. The above values relate only to the material used to produce this standard.

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.

Alpha Resources is an ISO/IEC 17025 accredited laboratory. For more information concerning our scope of accreditation contact Alpha Resources.

Certified October, 2008



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