

Alpha Resources, Inc.

Certificate Of Analysis

AR 888
STAINLESS STEEL PIN STANDARD
LOT # 411A

% CARBON
MEAN = 0.082
ONE SIGMA = 0.003
TWO SIGMA = 0.006
RANGE = 0.076 to 0.088

% SULFUR
MEAN = 0.243
ONE SIGMA = 0.006
TWO SIGMA = 0.012
RANGE = 0.230 to 0.255

Method of Analysis is ASTM E 1019-08, and ARI 033

Primary Standards Employed:
NIST 15h, 129c, 335
BAM/BCS 079-1, 294-1, 306/1
NCS HC11301
IPT 41b

Notes:

The mean analytical values were derived by a number of data sets (n=40). The precision values represent the standard deviation, two times the standard deviation (k=2, 95% confidence), 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, Technical Manager, 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. This bottle contains 454g, 1g pins to be used directly from the bottle with no preparation needed.

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 calibration standard is accredited and meets the requirements of ISO/IEC 17025 as verified by the ANSI-ASQ National Accreditation board. Alpha Resources is an ISO/IEC 17025 accredited laboratory. For more information concerning our scope of accreditation contact Alpha Resources.

Certified April 27, 2011



Technical Manager