

Alpha Resources, Inc. Certificate Of Analysis

AR 889

STEEL PIN STANDARD

LOT # A51995897

% CARBON

MEAN = 0.996

ONE SIGMA = 0.007

TWO SIGMA = 0.014

RANGE = 0.978 – 1.012

% SULFUR

MEAN = 0.010

ONE SIGMA = 0.001

TWO SIGMA = 0.002

RANGE = 0.0088 – 0.0122

Method of Analysis

ASTM E 1019 (Latest Revision)

Standards Employed:

NIST SRM 16f, 155, 163
German SRM 035-1

Notes:

The mean values reported is from a number of data sets acquired over different days, using ASTM E 1019 approved instruments.

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

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 August, 1997



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Page 1 Of 1