Alpha Resources, Inc. Certificate Of Analysis

AR 878 CARBON STEEL RING STANDARD LOT # A26076510

% CARBON MEAN = 0.271 ONE SIGMA = 0.003 TWO SIGMA = 0.006 RANGE = 0.265 to 0.277 % SULFUR
MEAN = 0.019
ONE SIGMA = 0.002
TWO SIGMA = 0.004
RANGE = 0.016 to 0.022

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

Primary Standards Employed:

NIST 32e, 32d, 30f, 50a, 33c, 9d, 293, 367, 12h, 73c

JSS 030-7 NCS NS13016

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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 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.

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 July 29, 2010