Alpha Resources, Inc. Certificate Of Analysis

AR 959 STAINLESS STEEL CHIP STANDARD LOT # 62106

% CARBON MEAN = 0.0187 ONE SIGMA = 0.0006 TWO SIGMA = 0.0012 RANGE = 0.0175 to 0.0199 % SULFUR
MEAN = 0.027
ONE SIGMA = 0.001
TWO SIGMA = 0.002
RANGE = 0.025 to 0.029

PPM NITROGEN
MEAN= 741 PPM
ONE SIGMA= 9 PPM
TWO SIGMA= 18 PPM
RANGE= 723 to 759 PPM

OXYGEN VALUE= 115PPM +/- 8PPM (REFERENCE ONLY)

Method of Analysis is ASTM E 1019-03, ARI 033 and ARI 034

Primary Standards Employed:

NIST 125b, 11h, 15h, 2159, 163, 100b, 343a BAM 284-2, 238-1, 227-1, 084-1, 265/3

JSS 150-15 NCS NS13016

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 (k=2, 95% confidence limit), 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 March 5, 2009

Kent Dyer

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