AR 957 RESULFURIZED CARBON STEEL CHIP STANDARD LOT # 111722697

% CARBON MEAN = 0.183 ONE SIGMA = 0.002 TWO SIGMA = 0.004 RANGE = 0.179 - 0.189 % SULFUR MEAN = 0.106 ONE SIGMA = 0.002 TWO SIGMA = 0.004 RANGE = 0.102 - 0.109

PPM NITROGEN MEAN= 83 PPM ONE SIGMA= 4 PPM TWO SIGMA= 8 PPM RANGE= 71 – 87 PPM

Method of Analysis is ASTM E 1019 (Latest Revision)

Primary Standards Employed:

NIST SRM 16f, 111b, 15g, 13g

German BAM 038-1

Notes:

The mean analytical values were derived by a number of data sets utilizing various ASTM 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 October, 1997

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