

**AR 954
CARBON STEEL CHIP STANDARD
LOT # M60884298**

**% CARBON
MEAN = 0.405
ONE SIGMA = 0.002
TWO SIGMA = 0.004
RANGE = 0.400 – 0.410**

**% SULFUR
MEAN = 0.022
ONE SIGMA = 0.001
TWO SIGMA = 0.002
RANGE = 0.019 – 0.025**

**PPM NITROGEN
MEAN= 76 PPM
ONE SIGMA= 3 PPM
TWO SIGMA= 6 PPM
RANGE= 68 – 84 PPM**

Method of Analysis is ASTM E 1019-94

Primary Standards Employed:

NIST	11h, 15g, 73c, 163, 363, 368
BAM	021-1, 035-1, 079-1
JSS	150-8, 151-9, 155-9

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. 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.

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 February, 1999

