## Alpha Resources, Inc. **Certificate Of Analysis**

**AR 950** 

CARBON STEEL CHIP STANDARD LOT # 1005	
% CARBON MEAN = 0.071 ONE SIGMA = 0.001 TWO SIGMA = 0.002	% SULFUR MEAN = 0.013 ONE SIGMA = 0.001 TWO SIGMA = 0.002
RANGE = 0.069 - 0.073 PPM NITROGEN MEAN= 10 PPM ONE SIGMA= 1 PPM TWO SIGMA= 2 PPM RANGE= 8 - 12 PPM	
Method of Analysis is ASTM E 1019 (Latest Revision) Primary Standards Employed: NIST SRM 8j, 12h, 100b, NCS HC11011 JSS GS 5c 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 and the overall direction and coordination of the analytical measurements leading to certification were performed by K.E. Dyer at Alpha Resources.

This certificate was revised to reflect a re-certified nitrogen value in September of 2002.

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 September, 2002

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Page 1 Of 1