

**AR 956  
CARBON STEEL CHIP STANDARD  
LOT # 0190980**

**% CARBON  
MEAN = 0.492  
ONE SIGMA = 0.005  
TWO SIGMA = 0.010  
RANGE = 0.482 - 0.502**

**% SULFUR  
MEAN = 0.300  
ONE SIGMA = 0.005  
TWO SIGMA = 0.010  
RANGE = 0.290 - .310**

**PPM NITROGEN  
MEAN= 88 PPM  
ONE SIGMA= 5 PPM  
TWO SIGMA= 10 PPM  
RANGE= 78 - 98 PPM**

Method of Analysis is ASTM E 1019 (Latest Revision)

Primary Standards Employed:

NIST	SRM 14e, 50c, 129, 133b, 163, 346a, 368
BCS	306/1

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 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 October, 2002

