Alpha Resources, Inc. Certificate Of Analysis

AR 956

CARBON STEEL CHIP STANDARD

LOT # 1144998

% CARBON	% SULFUR						
$\mathbf{MEAN} = 0.450$	MEAN = 0.297						
ONE SIGMA = 0.006	ONE SIGMA = 0.009						
TWO SIGMA = 0.012	TWO SIGMA = 0.018						
RANGE = $0.433 - 0.467$	RANGE = $0.282 - 0.312$						
575							
	A NITROGEN						
	MEAN = 60						
ONE SIGMA = 4							
TWO SIGMA = 8							
RA	NGE = 52 - 67						
Method of Analysis is ASTM E 1019 (Latest Revision)							
Carbon & Sulfur combustion IR detection							
Nitrogen inert gas fusion							
Standards employed:							
NIST	SRM 12h, 13g, 133b, 129c						
German	BAM 035-1, 079-1						
British	BCS 306						
Japanese	JSS 150-8						
	Notes:						

The mean analytical values were determined by a number of data sets provided by ASTM approved instruments.

The precision values represent the standard deviation, two times the standard deviation, and complete range of analyses.

The statistical analysis and overall coordination leading to certification was 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 secondary standard reference material and should be verified, prior to use, against a primary standard material provided by a governing agency such as N.I.S.T., when available.

Certified October, 1998

P.O. Box 199	3090 Johnson Road	Stevensville, MI www.alpha	49127 aresourc	USA	Dee	Fax (269) 465-3629
		Pag	ge 1 Of 1		0	