

Alpha Resources, Inc. Certificate Of Analysis

AR 946
STEEL CHIP STANDARD
LOT # VOSS502

% CARBON
MEAN = 0.0029
ONE SIGMA = 0.0007
TWO SIGMA = 0.0014
RANGE = 0.0015 – 0.0043

% SULFUR
MEAN = 0.0043
ONE SIGMA = 0.0004
TWO SIGMA = 0.0008
RANGE = 0.0035 – 0.0051

PPM NITROGEN
MEAN= 17 PPM
ONE SIGMA= 2 PPM
TWO SIGMA= 4 PPM
RANGE= 13 - 21 PPM

Method of Analysis is ASTM E 1019 (Latest Revision)

Primary Standards Employed:

NIST	SRM 131c, 131g, 163, 2165, 2166, 1096, 1098
IPT	73
NCS	NS 24521, 20018 HC 11011
BCS	260/4
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.

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



P.O. Box 199 3090 Johnson Road Stevensville, MI 49127 USA Phone (269) 465-5559 Fax (269) 465-3629

www.alpharesources.com

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