Alpha Resources, Inc. Certificate Of Analysis

AR 951

CARBON STEEL CHIP STANDARD LOT # 11525590		
% CARBON MEAN = 0.150 ONE SIGMA = 0.004 TWO SIGMA = 0.008		% SULFUR MEAN = 0.0252 ONE SIGMA = 0.0016 TWO SIGMA = 0.0032
RANGE = 0.142 - 0.158 PPM NITROGEN MEAN= 111 PPM ONE SIGMA= 5 PPM TWO SIGMA= 10 PPM RANGE= 101 - 121 PPM		
		ysis is ASTM E 1019-02 andards Employed:
NIST BCS JSS		73c, 133b, 293, 343a, 345a, 367, 368, 1754
		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

Kent Der

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