

Alpha Resources, Inc. Certificate Of Analysis

AR 303

CAST IRON STANDARD

LOT # 073100

% CARBON
MEAN = 3.89
ONE SIGMA = 0.03
TWO SIGMA = 0.06
RANGE = 3.83 – 3.95

% SULFUR
MEAN = 0.011
ONE SIGMA = 0.001
TWO SIGMA = 0.002
RANGE = 0.009 – 0.013

Method of Analysis is ASTM E 1019
(Latest Revision)

The certified mean values were derived by a number of data sets provided by various laboratories over different days by separate analysts utilizing ASTM approved instruments.

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

One or more of the following standard reference materials were employed:

NIST	SRM	107c, 4k, 367
French	IRSID	FB-12, FB-10-1
Japanese	JSS	111-12
China	NCS	NS56005

Notes:

The statistical analysis of the certification was performed by K.E. Dyer at Alpha Resources.

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 August, 2000

P.O. Box 199 3090 Johnson Road Stevensville, MI 49127 USA

www.alpharesources.com

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fax (269) 465-3629