

Alpha Resources, Inc.

Certificate Of Analysis

AR 874

CARBON & SULFUR RING STANDARD

LOT # C1070

% CARBON
MEAN = 0.723
ONE SIGMA = 0.006
TWO SIGMA = 0.012
RANGE = 0.709 – 0.735

% SULFUR
MEAN = 0.022
ONE SIGMA = 0.001
TWO SIGMA = 0.002
RANGE = 0.0206 – 0.0239

Method of Analysis is ASTM E 1019
(Latest Revision)

Primary Standards Employed:

NIST	50c, 363, 131c, 11h, 13g, 134a
German	BAM 035-1, 227-1, 079-1
Japanese	JSS 151-3

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 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 secondary reference standard 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 July, 1998

