

# Alpha Resources, Inc. Certificate Of Analysis

AR 870

ALPHA RESOURCES RING STANDARD

LOT # W701012

**% CARBON**  
**MEAN = 0.032**  
**ONE SIGMA = 0.002**  
**TWO SIGMA = 0.004**  
**RANGE = 0.028 – 0.036**

**% SULFUR**  
**MEAN = 0.0152**  
**ONE SIGMA = 0.001**  
**TWO SIGMA = 0.002**  
**RANGE = 0.0132 – 0.0172**

Method of Analysis is ASTM E 1019  
(Latest Revision)

Primary Standards Employed:

NIST	125b, 367, 2159, 16f, 14g
German	BAM 238-1
UK	BCS 456/1

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.

Certified July, 2000

