## AR 148 COPPER PIN STANDARD OXYGEN & SULFUR LOT # 9163192

PPM SULFUR
MEAN = 12
ONE SIGMA = +/- 2
TWO SIGMA = +/- 4
RANGE = 9 - 15

## PPM CARBON = 16 PPM (REFERENCE ONLY) PPM NITROGEN = 3 PPM (REFERENCE ONLY)

## Methods of Analysis

Oxygen Inert Gas Fusion IR Detection

Sulfur Combustion - Iodate Titration / IR Detection

Carbon Combustion – IR Detection
Nitrogen Inert Gas Fusion TC Detection

Standard Reference Materials employed were NIST SRM 1090, 343a, 131c China GBW 01401a, BCR SRM 58

## Notes:

The mean analytical values were derived by a number of data sets obtained by the above methods.

The precision value is based on the standard deviation, two times the standard deviation, and complete range of analysis obtained by the data sets. Carbon and Nitrogen given for reference only.

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 December, 1998

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