

Alpha Resources, Inc. Certificate Of Analysis

AR-1653

OXYGEN & NITROGEN PIN STANDARD

LOT # 303618398

PPM OXYGEN
MEAN = 14
ONE SIGMA = 3
TWO SIGMA = 6
RANGE = 9 - 19

PPM NITROGEN
MEAN = 34
ONE SIGMA = 4
TWO SIGMA = 8
RANGE = 27 - 41

Method of Analysis
ASTM E 1019
(Latest revision)

Notes:

The mean value reported is derived from a number of data sets utilizing ASTM approved instrumentation.

The precision value is based on the standard deviation, two times the standard deviation, and complete range of analyses.

Standard Reference Materials employed were:

NIST SRM	1098, 1091a
Japanese JSS	GS-2c, GS-5c
German BAM	038-1, 079-1

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 July, 1998

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