

Alpha Resources, Inc.

Certificate Of Analysis

AR 1647

OXYGEN & NITROGEN PIN STANDARD

LOT # 9853301

PPM OXYGEN
MEAN = 41
ONE SIGMA = 6
TWO SIGMA = 12
RANGE = 29 - 53

PPM NITROGEN
MEAN = 1797
ONE SIGMA = 40
TWO SIGMA = 80
RANGE = 1717 - 1877

Method of Analysis is inert gas fusion
ASTM E 1019
(Latest revision)

Standard Reference Materials employed were:

NIST	367, 1091a, 1099, 1754
NCS	NS 20019
JSS	GS - 1d

Notes:

The mean value reported is from a number of data sets acquired over different days by different analysts utilizing ASTM E 1019 approved instruments.

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

The overall direction, coordination, and statistical analysis 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, 2002

