

Alpha Resources, Inc.

Certificate Of Analysis

AR 662

OXYGEN & NITROGEN PIN STANDARD

LOT # T316B99

PPM OXYGEN
MEAN = 30
ONE SIGMA = 4
TWO SIGMA = 8
RANGE = 21 - 39

PPM NITROGEN
MEAN = 680
ONE SIGMA = 12
TWO SIGMA = 24
RANGE = 656 - 704

Method of analysis is ASTM E 1019
(Latest revision)

The following Primary Standards were used for calibration:

NIST	SRM 73c, 343, 133a, 1091a
Japanese	JSS GS-1c, GS-2c
German	BAM 231, 238

Notes:

The mean values reported were derived from a number of data sets utilizing ASTM approved instruments.

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

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 was 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 November, 1999

