

# Alpha Resources, Inc. Certificate Of Analysis

AR 662

OXYGEN & NITROGEN PIN STANDARD

LOT # A8866H901

PPM OXYGEN  
MEAN = 36  
ONE SIGMA = 4  
TWO SIGMA = 8  
RANGE = 28 - 42

PPM NITROGEN  
MEAN = 684  
ONE SIGMA = 8  
TWO SIGMA = 16  
RANGE = 668 - 700

Method of analysis is ASTM E 1019  
(Latest revision)

The following Primary Standards were used for calibration:

NIST	SRM 343a
JSS	GS-1d
BAM	227/1, 238/1

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.

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, 2001



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