

Alpha Resources, Inc.
Certificate Of Analysis

AR 657

THIS LOT HAS BEEN GONE ??????????????????????????????????????
OXYGEN & NITROGEN PIN STANDARD

LOT # H94798

PPM OXYGEN
MEAN = 83
ONE SIGMA = 7
TWO SIGMA = 14
RANGE = 71 - 95

PPM NITROGEN
MEAN = 108
ONE SIGMA = 3
TWO SIGMA = 6
RANGE = 102 - 114

Method of analysis is ASTM E 1019
(Latest revision)

The following Primary Standards were used for calibration:

- | | |
|----------|----------------|
| NIST | 368, 1099, 163 |
| German | 035-1 |
| Japanese | JSS GS-2C |

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 should be verified, prior to use, against a primary standard material provided by a governing agency such as N.I.S.T., when available.

Certified September, 1998

P.O. Box 199 3090 Johnson Road Stevensville, MI 49127 USA Phone (269) 465-5559 Fax (269) 465-3629

www.alpharesources.com