

Alpha Resources, Inc.

Certificate Of Analysis

OXYGEN & NITROGEN PIN STANDARD

AR 1647
LOT FF

PPM OXYGEN = 81 6
PPM NITROGEN = 1157 30

METHOD OF ANALYSIS IS ASTM E 1019 LATEST REVISION
(CARBOFUSION)

One or more of the following standard reference materials were employed in calibration.

NIST	367
NIST	1091a
NIST	1099
GERMAN	231-1
GERMAN	027-1
JAPANESE	JSS GS-1

NOTES:

The mean analytical values were derived by a number of data sets provided by different analysts using ASTM approved instruments over a number of days.

The precision value is one and one half times the standard deviation obtained by the data sets.

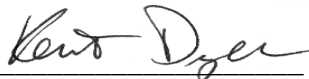
The statistical analysis of the certification was performed by K. E. Dyer at Alpha Resources.

The overall direction and coordination of the analytical measurements leading to certification were performed by K.E. Dyer at Alpha Resources.

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.

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 September, 1996



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