

Alpha Resources, Inc. Certificate Of Analysis

AR 654

OXYGEN & NITROGEN PIN STANDARD

LOT # L94A99

PPM OXYGEN
MEAN = 52
ONE SIGMA = 3
TWO SIGMA = 6
RANGE = 45 - 59

PPM NITROGEN
MEAN = 423
ONE SIGMA = 7
TWO SIGMA = 14
RANGE = 409 - 437

Method of analysis is ASTM E 1019
(Latest revision)

The following Primary Standards were used for calibration:

NIST	SRM	73c, 1093
German	BAM	227-1, 027-1, 284-1
Japanese	JSS	GS-1C, GS-1D

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 October, 1999



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

www.alpharesources.com

Page 1 Of 1