

Alpha Resources, Inc.

Certificate Of Analysis

AR 1652
OXYGEN & NITROGEN PIN STANDARD
LOT # 127528A04

PPM OXYGEN
MEAN = 38
ONE SIGMA = 2
TWO SIGMA = 4
RANGE = 34 - 42

PPM NITROGEN
MEAN = 535
ONE SIGMA = 9
TWO SIGMA = 18
RANGE = 517 - 553

Method of Analysis is ASTM E 1019-03
Primary Standards Employed:

NIST	343a
JSS	GS-1d, GS-3c
BAM	O4, 227-1, 238-1
NCS	NS20012

Notes:

The mean analytical values were derived by a number of data sets utilizing various ASTM approved instruments.

The precision values represent the standard deviation, two times the standard deviation, and complete range of analysis. When necessary, professional judgment is applied toward consideration of data and statistical information.

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

The material used in production of this standard was sampled in accordance with ARI 032. The samples for round robin testing were selected in accordance with ARI 014. The above values relate only to the material used to produce this standard.

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.

Alpha Resources Inc. is an ISO/IEC 17025 accredited company.

Certified February, 2005

P.O. Box 199 3090 Johnson Road Stevensville, MI 49127 USA Phone

www.alpharesources.com

Page 1 Of 1



629