

Alpha Resources, Inc. Certificate Of Analysis

AR 651

TITANIUM STANDARD

LOT # 101196

PPM OXYGEN
MEAN = 1660
ONE SIGMA = 65
TWO SIGMA = 130
RANGE = 1580 - 1755

PPM NITROGEN
MEAN = 49
ONE SIGMA = 9
TWO SIGMA = 18
RANGE = 35 - 65

PPM HYDROGEN
MEAN = 29
ONE SIGMA = 5
TWO SIGMA = 9
RANGE = 22.0 - 37.5

The certified values were determined by inert gas fusion techniques only.

Instruments used were:

LECO TC-436, LECO RH-404, LECO TC-136

The following Primary Standards were used for calibration (Gas Dose).

NIST SRM 352c, 352a, 176, 356, 1088, 355

Notes

The mean values reported are derived from a number of data sets using the instruments listed above.

The precision value is based on the standard deviation, two times the standard deviation, and complete range of analyses.

The statistical analysis, overall direction, and coordination of the analytical measurements leading to certification were 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.

Certified December, 1996



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