

Alpha Resources, Inc.

Certificate Of Analysis

AR 649

TITANIUM STANDARD

LOT # NS2-1296

MEAN WEIGHT PERCENT HYDROGEN	=	201 ug/g
STANDARD DEVIATION	=	5 ug/g
MEAN WEIGHT PERCENT OXYGEN	=	911 ug/g
STANDARD DEVIATION	=	44 ug/g
MEAN WEIGHT PERCENT NITROGEN	=	139 ug/g
STANDARD DEVIATION	=	12 ug/g

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

Instruments used were:

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

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

NIST SRM 352c, 173b

China SRM NC57001, NC57002, NC57003, NC57004

Belgium BCR SRM 276, 318

Notes

The certified mean values were statistically derived from the values reported to Alpha Resources through round robin.

The statistical analysis, overall direction, and coordination of the analytical measurements leading to certification were performed by D.M. Reasons 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 May, 1998

