

Elemental Microanalysis Limited

Okehampton Business Park
Exeter Road
Okehampton
Devon EX20 1UB
Telephone 01837 54446/7
Fax 01837 54544

**Certificate of Analysis
Part No. B2460
Zirconium Standard**

Certificate Number M20335506
Date 17 April 2013
Page 1 of 1

PPM Oxygen
Mean = 1405
One Sigma = 42
Two Sigma = 84
Range = 1321 - 1489

PPM Nitrogen
Mean = 50
One Sigma = 6
One Sigma = 12
Range = 38 - 62

Hydrogen
Mean = 14
One Sigma = 2
Two Sigma = 4
Range = 10 - 18

Methods used

Hydrogen
RH404/RH402 TC Cell Detection

Oxygen/Nitrogen
TC436 TC/IR Cell Detection

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

The precision value is based on the standard deviation, two times the standard deviation, and complete range of analyses. When necessary, professional judgement is applied toward consideration of data and statistical information.

The following Primary Standards were used for calibration/ validation:

Gas Dose
NIST SRM 358
Belgium BCR 276, 318

Notes

Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Elemental Microanalysis Ltd 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.
Elemental Microanalysis Limited

Certified May 2006