

Elemental Microanalysis Limited

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**Certificate of Analysis
Part No. B2765
Carbon, Sulphur and Nitrogen
Stainless Steel Powder Standard**

Certificate Number 112C
Date 26 February 2016
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% Carbon**Mean = 0.022****One Sigma Standard Deviation = +/-0.002****Expanded Uncertainty = +/-0.005****(k=2.5, 95% confidence)****% Sulphur****Mean = 0.0093****One Sigma Standard Deviation = +/-0.0003****Expanded Uncertainty = +/-0.0007****(k=2.3, 95% confidence)****% Nitrogen****Mean = 0.041****One Sigma Standard Deviation = +/-0.002****Expanded Uncertainty = +/-0.004****(k=2, 95% confidence)****% Oxygen = (0.195 REFERENCE ONLY)**

Method of analysis is

ASTM E 1019-11, ARI 033 and ARI 034

Primary (NMI) Standards employed:

NIST SRM 73c, 345a, 2159, 367, 125b, 15h

NCS NS22006

ECRM 284-2, 297-1, 227-1

Notes:

The mean analytical values were derived by 4 data sets (n=40) showing traceability to the above mentioned NMI standards, and reported in mass fraction. The precision values represent the estimated uncertainty derived from the data sets and may not represent your testing capabilities. Refer to your test method for the expanded method derived uncertainty if needed. When necessary, professional judgement is applied toward consideration of data and statistical information.

The material used in production of this standard was sampled in accordance with ARI 032. The samples used for round robin testing were selected in accordance with ARI 014. The above values relate only to the material used to produce this standard. This bottle consists of 150g, clean powder, to be used directly from the bottle with no preparation needed. This product has an indefinite shelf life. Keep sealed and store in a cool dry place.

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 Standard (working standard), and is traceable the above-mentioned NMI references. For good laboratory practice it is recommended that all standards be verified prior to use..

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Certified March 2, 2012