## **Elemental Microanalysis Limited**

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## Certificate of Analysis Part No. B2754 Carbon Steel Chip Standard

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% Carbon Mean = 0.506 One Sigma Standard Deviation = 0.008 Expanded Uncertainty = 0.016 (k=2, 95% confidence) %Sulphur Mean = 0.078 One Sigma Standard Deviation = 0.002 Expanded Uncertainty = 0.004 (k=2, 95% confidence)

## % Nitrogen Mean = 0.0090 One Sigma Standard Deviation = 0.0004 Expanded Uncertainty = 0.0008 (k=2, 95% confidence)

Method of analysis is ASTM E 1019-11, ARI 033 and ARI 034

Primary (NMI) Standards employed:	
NIST SRM	368, 50c, 8k, 2160, 14e, 73c
NCS	NS22007, HC16006b
JSS	150-15, 602-10,
IPT	43

## Notes

The mean analytical values were derived by data sets (n=40) showing trace-ability 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

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 chips, 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 standards.

For good laboratory practice it is recommended that all standards be verified prior to use

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