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Certificate of Analysis Part No. B2752 Carbon, Sulphur and Nitrogen Chip Standard

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% Carbon
Mean = 0.0051
Standard Deviation = ± 0.0004
Expanded Uncertainty = ± 0.0008
(k=2, 95% confidence) n=32

% Sulphur
Mean = 0.0083
Standard Deviation = ± 0.0004
Expanded Uncertainty = ± 0.0009
(k=2, 95% confidence) n=51

% Nitrogen
Mean = 0.0049
Standard Deviation = ± 0.0003
Expanded Uncertainty = ± 0.0006
(k=2, 95% confidence) n=33

Method of analysis is ASTM E 1019-18 and ARI 033

Primary (NMI)/GUIDE 34/ISO17034 Reference Standards Employed:

NIST SRM 131g, 166c, 12h, 125b, 155, 134a, 665, 50c

EURO 191-2, 226-1, 079-1, 464, 183-1 JSS 512-7, 030-8, 102-8, 367-9, 066-5

JK 7B

ALPHA AR946-516E, AR950-1118B, AR946-614C

Notes

The intended use of this reference material standard is for the calibration and verification of Carbon/Sulphur/Nitrogen analysis as described by ASTM E-1019. The mean analytical values were derived by data sets showing traceability to the above-mentioned references. The minimum and typical size used for testing was 1g. The precision values represent the estimated mean, standard deviation, and expanded uncertainty derived from the data sets. Metrological traceability is to the SI derived unit of mass fraction expressed as percent. Refer to your test method for additional uncertainty information. When necessary, professional judgment is applied toward consideration of data and statistical information.

The material used in production of this reference material standard was identified in accordance with ARI 032. The samples for round robin testing were selected in accordance with ARI 014. The above values relate only to the material used to produce this product. This bottle contains 150g, clean chips, to be used directly from the bottle with no preparation needed. While unable to determine a definite shelf life, this reference should be reviewed every 25 years from the date of certification. Keep sealed and store under normal laboratory conditions.

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 certificate cannot be reproduced except in full.

This Reference Material is traceable to the above-mentioned reference materials. For good laboratory practice, it is recommended that all references be verified as fit for purpose prior to use.

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