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Certificate Number 417A
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% Carbon Mean = 0.272 One Sigma Standard Deviation = +/- 0.003 Expanded Uncertainty = +/- 0.006 (k=2, @ 95% confidence limit) (n=40)	%Sulphur Mean = 0.0215 One Sigma Standard Deviation = +/- 0.0008 Expanded Uncertainty = +/- 0.0016 (k=2, @ 95% confidence limit) (n=40)
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Method of analysis is ASTM E1019. 11 and ARI 033

Primary (NMI) Standards Employed:

NIST SRM	19h, 100b, 20g
JSS	151-8
BAS	086-1, 084-1
NCS	HC13016
JK	7b

Notes

The intended use of this reference standard is for the calibration and validation of induction combustion Carbon/Sulphur analysis by infra-red detection as described by ASTM E-1019. The mean analytical values shown are derived by 4 data sets, showing trace-ability to the above mentioned NMI standards, and reported in mass fraction. The minimum and typical size for testing was 1g (1 ring) per ASTM E1019. 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 additional uncertainty 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 454g, 1g rings (nominal weight), to be used directly from the bottle with no preparation needed. This product has an indefinite shelf life. 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 is a Certified Reference Material (working reference standard), and is traceable to the above-mentioned reference standards. For good laboratory practice it is recommended that all standards be verified prior to use.

Elemental Microanalysis Limited

Certified May 18, 2017