

Elemental Microanalysis Limited

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

**Certificate of Analysis
Part No. B2331
High Sulphur Residual Oil
Standard**

Certificate Number 863816
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**Weight Percent Sulphur = 20.00
Expanded Uncertainty = 1.00
(n=30)**

Methods used for analysis:

ASTM D 1552-16

The intended use of this standard is for the calibration or verification of sulphur analysis by combustion or other valid testing methods. This standard was produced gravimetrically using high purity materials, with balances calibrated and checked by precision NIST traceable weights and verified using the above ASTM method. The precision value represents the 95% confidence limit ($k=2$) derived from analysis and errors from weighing. The sample size used for this analysis was approximately 50mg. Sample size and minimum sample size may be contingent upon your test method or instrument manufacturer recommendations. The material used in the production of this standard was identified in accordance with ARI 041. The samples for round robin testing were selected in accordance with ARI 031. Normal ASTM procedures should be employed when using this standard. This includes using the reproducibility and repeatability factors for the ASTM method you wish to employ.

Notes

Before use, the contents of the bottle should be mixed thoroughly by vigorous shaking of the bottle. The contents should not be exposed to the air for long periods of time. This bottle contains 100ml residual fuel oil to be used as per your test method or instrument manufacturers recommendations. When kept sealed and unopened this product has an indefinite shelf life. Once opened, this CRM is valid for two years only.

This is a Certified Reference Material (CRM), and is traceable to the above-mentioned standard. For good laboratory practice it is recommended that all standards be verified prior to use. 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.

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This CRM is valid for two years from the date of opening

November 9, 2016