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Certificate of Analysis Part No. B2715 Wrought Iron Standard

Certificate Number	717A
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% Carbon Mean = 0.0007 Standard Deviation = ± 0.0002 Expanded Uncertainty = ± 0.0004 (k=2, @ 95% confidence limit)(n=59) %Sulphur Mean = 0.0011 Standard Deviation = ± 0.0003 Expanded Uncertainty = ± 0.0006 (k=2, @ 95% confidence)(n=59)

Method of analysis is ASTM E 1019-11 and ARI 033 Primary (NMI)/Guide 34 Reference Standards Employed:

NIST SRM	2168, 348a
JSS	1205-2, 1201-4
BAM/BCS	270-1, 260/4
NCS	HC11011, HC15002F
ALPHA	AR673-716C, AR673-814H

Notes

The intended use of this reference standard is for the calibration and verification of induction combustion Carbon/Sulphur analysis by infra-red detection as described by ASTM E-1019. The mean analytical values were derived by 6 data sets showing traceability to the above-mentioned primary reference standards and reported in mass fraction. The minimum and typical size for testing was 1g (nominal) per ASTM E1019. The precision values represent the mean value and estimated uncertainty derived from the data sets. 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 standard was identified in accordance with ARI 032. The samples for round robin style testing were selected in accordance with ARI 014. The above values relate only to the material used to produce this standard. This bottle contains 454g iron chip to be used directly from the bottle with no preparation needed. While unable to determine a definite shelf life this reference should be reviewed 25 years after 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 (working reference standard) is traceable to the above-mentioned reference materials. For good laboratory practice, it is recommended that all standards be verified prior to use.

Elemental Microanalysis Limited

Certified on the 6th of March 2018