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Certificate of Analysis Part No. B2752 Steel Chip Standard

RM Doc Number: 423N

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Analytical Results

% Carbon

Mean = 0.0043 Standard Deviation = 0.0005 Expanded Uncertainty = ± 0.0011 (k=2, @95% confidence) n=42

% Sulfur

Mean = 0.0083 Standard Deviation = ± 0.0004 Expanded Uncertainty = ± 0.0008 (k=2, @95% confidence) n=45

% Nitrogen

Mean = 0.0046 Standard Deviation = ± 0.0002 Expanded Uncertainty = ± 0.0004 (k=2, @95% confidence) n=34

Primary (NMI Reference Standards Employed: NIST – 101g, 123c, 125b, 12h BAM – 183-1, 191-2, 079-1 JSS – 512-7, 066-5, 367-9 NCS – HC11011, HC20504, NS20050 JK – 7B

Method of Analysis is ASTM E 1019-18

The intended use of this Reference Material (RM) is for the calibration and verification of Carbon/Sulfur/Nitrogen analysis as described by ASTM E-1019.

The minimum sample size to perform this intended use is 1g.

The Period of Validity for this RM is not able to be determined and should be reviewed 25 years after the date below.

This bottle contains 150g of steel chips to be used per the test method you follow. Keep sealed tightly and store under normal laboratory conditions.

Refer to your test methods and or manufacturer manual for expanded uncertainties, repeatability/reproducibility factors.

For good laboratory practice, we recommend that all reference materials be verified as fit for purpose 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.

Certified on the 6th of July, 2023

Elemental Microanalysis Ltd

^{*}The analytical results above are provided by an accredited reference material manufacturer with a current certification in ISO 17025 and 17034.