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Certificate of Analysis
Part No. B2750
Steel Chip Standard

RM Doc Number: 123D

Analytical Results

% Carbon	**% Sulfur**
Mean = 0.167	Mean = 0.022
Standard Deviation = ± 0.002	Standard Deviation = ± 0.001
Expanded Uncertainty = ± 0.005	Expanded Uncertainty = ± 0.002
(k=2, @95% confidence)	(k = 2, @95% confidence) n=34

% Nitrogen
Mean = 0.0100
Standard Deviation = ± 0.001
Expanded Uncertainty = ± 0.0007
(k=2, @95% confidence) n=37

Method of Analysis is ASTM E 1019-18
Primary (NMI)/GUIDE 34/ISO 17034 Reference Standards Employed:
NIST 19h, 293, 339, 20g, 106b, 343a, 368, 345b, 50c, 163
EURO 183-1, 286-1
JSS 151-18, 030-9, 604-9, 512-7
NCS NS11011

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

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 us 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.

24th of July 2023.

Elemental Microanalysis Ltd.