

Analytical Results

% Carbon

Mean = 0.455

Standard Deviation = ± 0.004

Expanded Uncertainty = ± 0.010

(k=2, @95% confidence) n=48

% Sulfur

Mean = 0.274

Standard Deviation = 0.005

Expanded Uncertainty = ± 0.013

(k=2, @95% confidence) n=39

% Nitrogen

Mean = 0.0061

Standard Deviation = ± 0.0001

Expanded Uncertainty = ± 0.0003

(k=2, @95% confidence) n=40

Primary (NMI)/GUIDE 34/ISO 17034 Reference Standards Employed:

NIST – 2160, 20g, 133b, 152a, 100b, 106b, 368, 50c, 12h

BAM – 183-1, 079-1

JSS – 604-9, 367-9

Method of Analysis is ASTM E 1019-18

**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 and typical sample size to perform this intended use is 1g.

The Period of Validity for this RM 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 4th of March 2024.

Elemental Microanalysis Ltd