

Analytical Results	
<b>% Carbon</b> Value = 0.417 Expanded Uncertainty = $\pm 0.007$ n = 32 k $\approx$ 2 (95% confidence)	<b>% Sulfur</b> Value = 0.027 Expanded Uncertainty = $\pm 0.003$ n = 32 k $\approx$ 2(95% confidence)
<b>% Nitrogen</b> Value = 0.0083 Expanded Uncertainty = $\pm 0.0008$ n = 31 k $\approx$ 2(95% confidence)	
<b>Primary Reference Standards Used:</b> NIST SRM 32e, 163, 50c, 368, 12h, 178, 20g, 100b, 19h NCS NS20035b EURO 084-1, 058-2 JSS 150-15, 030-8, 057-9, 151-18	
<b>Methods Employed:</b> 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 to perform this intended use is 1g.

The Period of Validity for this RM is 20 years from the date of certification.

This bottle contains 150g of clean 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 9<sup>th</sup> of August 2019

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Elemental Microanalysis Ltd