

Analytical Results	
<p><b>% Carbon</b> Value = 0.0156 Expanded Uncertainty = 0.0024 Method &amp; Detection = Combustion k <math>\approx</math> 2 (95% confidence)</p>	<p><b>% Sulfur</b> Value = 0.0224 Expanded Uncertainty = 0.0014 Method &amp; Detection = Combustion k <math>\approx</math> (95% confidence)</p>
<p><b>Methods Employed:</b> JCGM 100:2008; Evaluation of Measurement Data – Guide to the Expression of Uncertainty in Measurement; (GUM 1995 with Minor Corrections), Joint Committee for Guides in Metrology (JCGM) (2008); available at <a href="https://www.bipm.org/utis/common/documents/jcgm/JCGM_100_2008_E.pdf">https://www.bipm.org/utis/common/documents/jcgm/JCGM_100_2008_E.pdf</a> (accessed February 2025) JCGM 101:2008; Evaluation of Measurement Data – Supplement 1 to the Guide for the Expression of Uncertainty in Measurement; Propagation Distributions Using a Monte Carlo Method; Joint Committee for guides in Metrology (JCGM) (2008); available at <a href="https://www.bipm.org/utis/common/documents/jcgm/JCGM_100_2008.pdf">https://www.bipm.org/utis/common/documents/jcgm/JCGM_100_2008.pdf</a> (accessed February 2025).</p>	

*\*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 verification and calibration of combustion for the determination of carbon and sulfur.

The minimum sample size to perform this intended use is 1 ring of RM material.

The Period of Validity for this RM is 5 years from the initial certification date, within the measurement uncertainties specified, provided the CRM is handled and stored in accordance with the instructions given in this certificate.

This bottle contains 454g of rings of nominal mass 1.0 g, to be used as 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 3<sup>rd</sup> of April 2025

Elemental Microanalysis Ltd