

## Analytical Results

**LOI = 9.93%**

Expanded Uncertainty =  $\pm 0.07$   
(k=2, @95% confidence limit, n=32)

References used – AR4105-419A, AR4107-419C, AR4105-1122R, AR4106-419B

**Verified using ASTM C25-19 and TGA**

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

This standard was produced using high purity materials based upon their empirical and stoichiometric properties. These materials were blended and weighed on balances that are calibrated using NIST traceable weights. Metrological traceability is to the SI derived unit of mass fraction expressed as percent.

The intended use of this Reference Material (RM) is for the verification and quality check of LOI using ASTM methods utilizing a muffle furnace or TGA (Thermal Gravimetric Analysis) instrumentation and other appropriate methods for the determination of loss on ignition at 950°C.

The sample size used for the verification tests were 1g. Refer to your instrument manufacturer or test method for your required sample size.

The Period of Validity for this RM is 15 years from the date of certification.

This bottle contains 100g of powder to be used per the test method you follow. Keep sealed tightly and store under normal laboratory conditions. It is recommended this standard be dried per your test method, instrument manufacturer recommendations, or at 105° C to a constant mass prior to use. Ample amounts of air must be available for complete combustion, do not use covers. This reference does not contain any Sulfur and no determination or corrections are needed.

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 4<sup>th</sup> of March, 2024.

Elemental Microanalysis Ltd