

LOI = 5.13%

EXPANDED UNCERTAINTY = ± 0.09

(k=2, @ 95% confidence limit, n=31)

Verified using ASTM C25-19 referee method ARI-LAB-620, and TGA ARI-LAB-633

References used – AR4105-419A, AR4107-419C, AR4105-1016A, AR4106-419B, AR5029-420Y

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. This reference was produced and sampled for testing in accordance with ARI-LAB-608. The sample size used for the verification tests were 1g. Refer to your instrument manufacturer or test method for your required sample size and overall test method repeatability and reproducibility factors if needed.

The intended use of this standard is for the verification and quality check of LOI using ASTM methods utilizing a muffle furnace or TGA (Thermal Gravimetric Analysis) instrumentation. It is recommended this standard be dried per your test method, instrument manufacturer recommendations, or at 105^o 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 sulphur and no determination or corrections are needed. This bottle contains 100g powder material to be used directly and per your test method requirements. Keep sealed tightly and store under normal laboratory conditions. This certificate cannot be reproduced except in full. 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.

Values are valid for 15 years from the date of certification.

Certified on the 22nd of March 2023

Elemental Microanalysis Ltd