

Analytical Results

% Oxygen

Mean = 0.1189

Exp Uncertainty = 0.0201

n=50, k=2,

Method: Inert Gas Fusion/IR

% Nitrogen

Mean = 0.0056

Exp Uncertainty = 0.0023

n=50, k=2

Method: Inert Gas Fusion/TC

% Hydrogen

Mean = 0.0165

Exp Uncertainty = 0.0017

n=51, k=2

Method: Inert Gas Fusion/TC

Primary (NMI) Reference Standards Employed:

NIST – SRM 360b, 173c, 2453a, 2454, 2454a

Method of Analysis: ASTM E1409-13, E1447-22

**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 validation of inert gas fusion (or other appropriate) analyzers for the determination of oxygen nitrogen and hydrogen as described in the above ASTM methods.

Refer to test method recommendations for an appropriate sample size. Multiple pins may be used per test method requirements with a minimum sample size of 1 pin.

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

This bottle contains 10g of 0.1g pins 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 18th of June 2024.

Elemental Microanalysis Ltd