

Analytical Results	
<b>% Oxygen</b> Mean = 0.0030 Standard Deviation = ± 0.0004 Expanded Uncertainty = ± 0.0008 (k=2, @95% confidence, n=45)	<b>% Nitrogen</b> Mean = 0.0319 Standard Deviation = ± 0.0009 Expanded Uncertainty = ± 0.0020 (k=2, @95% confidence, n=36)
Primary (NMI/Guide 34/ISO17034) Reference Materials Employed: NIST 73c, 343a, 1099, 1098, 345b, 2168 NCS HC11001 JSS 610-10	
<b>Method of Analysis is ASTM E 1019-18</b>	

*\*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 of to be a calibration or QC validation of Oxygen and Nitrogen on inert gas fusion analyzers utilizing infrared (O) and thermal conductivity (N) detection as described in ASTM E1019.

The minimum sample size to perform this intended use and the sample size used is 1 pin (1g nominal).

The Period of Validity for this RM is not able to be determined and should be reviewed 25 years after the date below.

This bottle contains 100g of 1g pins (nominal) 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 21<sup>st</sup> of September 2023.

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