

Analytical Results	
% Carbon Value = 0.0116 Expanded Uncertainty = 0.0020 Method & Detection = Combustion/IR n = 47 k=2.0	% Hydrogen Value = 0.0241 Expanded Uncertainty = 0.0027 Method & Detection = Inert Gas Fusion/TC n = 50 k = 2.0
Reference materials employed: NIST SRM: 360b, 173c, 2454a, 649 AR: 649-1217B, 589-814C	
Methods: ASTM E1447 – Standard Test Method for Determination of Hydrogen in Reactive Metals and Reactive Metal Alloys by Inert Gas Fusion with Detection by Thermal Conductivity or Infrared Spectroscopy. ASTM E1941 – Standard Test Method for Determination of Carbon in Refractory and Reactive Metals and Their Alloys by Combustion Analysis.	

**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 induction furnace combustion and inert gas fusion (or other appropriate) analysers for the determination of carbon and hydrogen.

The minimum sample size to perform this intended use is dependent on the test method and instrumentation used, however a minimum sample size of 1 pin (0.25g nominal) is recommended.

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

This bottle contains 100 units of 0.25g (nominal) 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 29th of August 2024.

Elemental Microanalysis Ltd