

Analytical Results

% Carbon*	% Sulfur*
Mean = 0.0004*	Mean = 0.0011*
Standard Deviation = ± 0.0001	Standard Deviation = 0.0001
Expanded Uncertainty = ± 0.0003 (k=2, @95% confidence limit) (n=35)	Expanded Uncertainty = 0.0003 (k=2, @95% confidence limit) (n=58)

Primary (NMI) Reference Materials Employed:

NIST SRM: 2168, 348a
JSS: 1205-2, 1201-4
BAM: 191-2, 289-1
NCS: HC11011, HC11001

Method of Analysis is ASTM E 1019-18*

**(note: Carbon and Sulfur are below the scope limits of the test method).*

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 or blank evaluation of background to signal bias in induction combustion Carbon/Sulfur analysis by infra-red detection as described by ASTM E 1019.

The minimum sample size to perform this intended use is 1g (nominal) per ASTM E 1019.

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 454g of iron chip 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.

26th of June, 2023

Elemental Microanalysis Ltd