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Certificate of Analysis
Part No. B2757
Steel Chip Standard

Analytical Results

% Carbon	**% Sulfur**
Mean = 0.897	Mean = (0.0006)
Standard Deviation = ± 0.013	Standard Deviation = NA
Expanded Uncertainty = ± 0.029	Expanded Uncertainty = NA
(k=2, @95% confidence), n=40	Non-certified value

% Nitrogen
Mean = 0.0048
Standard Deviation = ± 0.0003
Expanded Uncertainty = ± 0.0007
(k=2, @95% confidence) n=40

Primary (NMI):
NIST SRM - 134a, 337, 346a, 123c, 16e, 16f, 155, 2168, 348a, 368, 12h, 50c, 1090, 1098
BAM - 289-1, 227-1, 079-1, 183-1
JSS - 066-5, 610-10, 611-11, 202-1, 367-9, 030-9, 050-8, 120-1

Method of Analysis is ASTM E1019-18

**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 induction combustion analyzers with infrared detection (% carbon) and inert gas fusion analyzers with thermal conductivity detection (% nitrogen) as described in the above ASTM methods.

Refer to test method recommendations for an appropriate sample size.

The Period of Validity for this RM is not able to be determined and should be reviewed every 20 years after the date below.

This bottle contains 150g of steel chip reference material to be used per the test method you follow. It may be used directly from the bottle without preparation. 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 21st of May 2024

Elemental Microanalysis Ltd