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Certificate of Analysis
Part No. B2523
Carbon Steel Pin Standard

Analytical Results

% Carbon	**% Sulfur**
Mean = 0.727	Mean = 0.022
Standard Deviation = ± 0.006	Standard Deviation = ± 0.001
Expanded Uncertainty = ± 0.014	Expanded Uncertainty = ± 0.002
(k=2, @95% confidence limit) (n=30)	(k=2, @95% confidence limit) (n=30)

Primary (NMI)/ISO17034 Reference Standards Employed:
NIST SRM: 364, 14e, 13g, 364a, 152a, 2160
NCS: NS11010

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 verification of for the calibration and verification of induction combustion Carbon/Sulfur analysis by infra-red detection as described by ASTM E1019.

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

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 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 20th of October 2023.

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