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Certificate of Analysis
Part No. B2406
Steel Pin Standard

Analytical Results

% Oxygen	**% Nitrogen**
Value = 0.0030	Value = 0.0249
Expanded Uncertainty = 0.0009	Expanded Uncertainty = 0.0025
Method & Detection = Inert Gas Fusion/IR	Method & Detection = Inert Gas Fusion/TC
n = 60	n = 60
k ≈ 2 (95% confidence)	k ≈2 (95% confidence)

Primary Reference Standards Used:

NCS NS 11096,NS 11094
BAM 027-1, 026-2
JSS 611-11, 604-10

Method Employed:

ASTM E1019 – Standard Test Methods for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel, Iron, Nickel, and Cobalt Alloys by Combustion and Inert Gas Fusion Techniques

**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 and calibration of inert gas fusion and other appropriate analysis methods for the determination of oxygen and nitrogen.

The minimum sample size to perform this intended use is dependent upon the test method and instrumentation used. It is recommended that no less than 1 pin of RM material be used for destructive test methods.

The Period of Validity for this RM is 20 years after opening, if handling and storage instructions are followed and should be reviewed 20 years after the date below.

This bottle contains 50g of 0.5g 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 6th of January 2025

Elemental Microanalysis Ltd