

Analytical Results	
% Carbon Value = 7.180 Expanded Uncertainty = 0.150 Method & Detection = Combustion/IR n = 30 k \approx 2 (95% confidence)	% Sulfur Value = 0.0516 Expanded Uncertainty = 0.0112 Method & Detection = Combustion/IR n = 32 k \approx 2 (95% confidence)
Primary Reference Standards Used: NIST SRM 1d, 915c	
Methods Employed: ASTM E1915 – Standard Test Methods for Analysis of Metal Bearing Ores and Related Materials for Carbon, Sulfur, and Acid-Base Characteristics ASTM E1019 – Standard Test Methods for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel, Iron, Nickel, and Cobalt Alloys by Various 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 and calibration of induction furnace combustion and other appropriate analysis methods for the determination of carbon and sulfur.

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 0.100 g of RM material be used for destructive test methods.

The Period of Validity for this RM is 25 years after the date below, if handling and storage instructions are followed.

This bottle contains 25g of fine powder to be used per the test method you follow. This product should be dried at 105°C for two hours before use. 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 January 2025

Elemental Microanalysis Ltd