

National Bureau of Standards

Certificate of Analysis

Standard Reference Material 1036

Low Carbon Silicon Steel

This SRM is in the form of chips and is intended for use in calibrating instruments used in the determination of sulfur.

Constituent	Certified Value ¹ % by Wt.	Estimated Uncertainty ²
Sulfur	0.0007	± 0.0001

¹The certified value listed for a constituent is the present best estimate of the "true" value.

²The estimated uncertainty listed for a constituent is based on judgment and represents an evaluation of the combined effects of method imprecision, possible systematic errors among methods, and material variability for samples of 750 mg or more. (No attempt was made to derive exact statistical measures of imprecision because several methods were involved in the determination of the constituents.)

Measurements for the certification of SRM 1036 were made at NBS by isotope dilution thermal ionization mass spectrometry and by combustion infrared techniques.

All measurements were performed in the NBS Inorganic Analytical Research Division. The isotope dilution mass spectrometry measurements were performed by P.J. Paulsen, W.R. Kelly and the combustion-infrared measurements were performed by B.I. Diamondstone.

The material for SRM 1036 was supplied to NBS by Allegheny Ludlum Steel Corporation, Brackenridge, Pa.

The technical and support aspects involved in the preparation, certification, and issuance of this Standard Reference Material were coordinated through the Office of Standard Reference Materials by R.E. Michaelis and W.P. Reed.

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George A. Uriano, Chief
Office of Standard Reference Materials