U.S. Department of Commerce
Elliot L. Richardson,
Secretary

National Bureau of Standards
Ernest Ambler, Acting Director

National Bureau of Standards Certificate of Analysis

Standard Reference Material 4k

Cast Iron

(In cooperation with the American Society for Testing and Materials)

This material is in chip form sized between 0.7 mm and 1.2 mm sieve openings (25 and 16 mesh). It is intended for use in chemical methods of analysis.

This standard contains an appreciable amount of graphitic carbon and should be mixed *gently* before use.

Element	Percent, by weight
Total carbon	3.2_2
Graphitic carbon	2.6_5
Manganese	0.82_5
Phosphorus	.149
Sulfur	.043
Silicon	1.33
Copper	0.24_3
Nickel	.042
Chromium	.116
Vanadium	.024
Molybdenum	.040

CERTIFICATION: The value listed for a certified element is the *present best estimate* of the "true" value based on the results of the cooperating analysts. The value listed is not expected to deviate from the "true" value by more than $\pm$ 1 in the last significant figure reported; for a subscript figure, the deviation is not expected to be more than $\pm$ 5.

The overall coordination of the technical measurements leading to certification were performed under the direction of J. I. Shultz, Research Associate, ASTM-NBS Research Associate Program.

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.

Washington, D. C. 20234
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J. Paul Cali, Chief
Office of Standard Reference Materials

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