U. S. Department of Commerce Malcolni Baldrige Secretary National Burgare of Standards Ernest Ambler, Director

National Bureau of Standards

Certificate of Analysis

Standard Reference Material 131d

Low Carbon Silicon Steel

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

This Standard Reference Material (SRM) is a low alloy silicon steel that is certified for carbon and sulfur. The nominal silicon content is 3 percent. SRM 131d is in chip form and is sized between 0.5 mm and 1.0 mm sieve openings (35 and 18 mesh). It is intended primarily for use in checking and/or calibrating carbon/sulfur analyzers.

Element	Carbon ^a	Sulfur ^a
	Percent by Weight	
Certified Value ¹	0.0035	0.0011
Estimated Uncertainty ²	0.0004	0.0002
Analyst		
ĺ	0.0038	0.0010
2	.0038	.0014
3	.0038	.0010
4	.0031	.0011
5	.0031	.0010
6	.0035	.0011

¹The certified value listed for an element is the present best estimate of the "true" value based on results of the cooperative program for certification.

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 W.P. Reed.

December 17, 1986 Gaithersburg, MD 20899 Stanley D. Rasberry, Chief Office of Standard Reference Materials

²Estimated uncertainty includes method imprecision, bias among methods, and material variability for samples of 0.5 g or more.

^aCombustion-infrared detection.