



Designation: A 323 – 93 (Reapproved 2000)

Standard Specification for Ferroboron¹

This standard is issued under the fixed designation A 323; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification covers six grades of ferroboron, designated A1, A2, B1, B2, C1, and C2.

1.2 The values stated in inch-pound units are to be regarded as the standard. The SI units given in parentheses are for information only.

2. Referenced Documents

2.1 ASTM Standards:

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications²

E 31 Methods for Chemical Analysis of Ferroalloys³

E 32 Practices for Sampling Ferroalloys and Steel Additives for Determination of Chemical Composition³

E 371 Test Methods for Chemical Analysis of Ferroboron⁴

3. Ordering Information

3.1 Orders for material to this specification shall include the following information:

3.1.1 Quantity,

3.1.2 Name of material,

3.1.3 ASTM designation,

3.1.4 Grade,

3.1.5 Size (see 4.1), if appropriate, and

3.1.6 Special requirements for packing, inspection, analysis reports, etc., as appropriate.

NOTE 1—A typical ordering description follows: 10 000 lb (4500 kg) ferroboron, ASTM A 323, Grade B1, 2 in. (50.8 mm) by down, packed in sealed containers.

4. Sizing

4.1 Ferroboron is available in various sizes such as: 2 in. (50.8 mm) by down, 1 in. (25.4 mm) by down, 1/4 in. (6.35 mm) by down, and 20 mesh (0.841 mm) by down. The size shall be as specified in the order.

5. Chemical Analysis

5.1 The chemical analysis of the material shall be made in accordance with Methods E 31 and Test Methods E 371. Where no method is given in Methods E 31 and Test Methods E 371 for the analysis for a particular element, the analysis shall be made in accordance with a procedure agreed upon by the manufacturer and purchaser.

6. Sampling

6.1 The material shall be sampled in accordance with Practices E 32.

6.2 Other methods of sampling mutually agreed upon by manufacturer and purchaser may be used. For referee purposes, Practices E 32 shall be used.

7. Inspection

7.1 The manufacturer shall afford the inspector representing the purchaser all reasonable facilities, to satisfy him that the material is being furnished in accordance with this specification.

8. Rejection

8.1 Any claims or rejections based upon check analysis shall be made to the manufacturer within 45 days from the purchaser's receipt of the material.

9. Packaging and Marking

9.1 Packaging:

9.1.1 Ferroboron shall be packed in such a manner as to be protected from loss or damage during shipment.

9.1.2 When shipment is required to be in containers under the provisions of Section 3, the containers shall be sound and capable of protecting the material from loss or damage during shipment and handling.

9.2 Marking:

9.2.1 When the shipment is made in bulk, it shall be accompanied by appropriate identification showing the material, grade, ASTM designation, size, lot number, and the name, brand, or trademark of the manufacturer.

9.2.2 When the shipment is made in containers, each container shall be identified by an attached label or tag. The marking shall show the material, grade, ASTM designation,

¹ This specification is under the jurisdiction of ASTM Committee A-1 on Steel, Stainless Steel, and Related Alloys and is the direct responsibility of Subcommittee A01.18 on Castings.

Current edition approved Dec. 15, 1993. Published April 1994. Originally issued 1949. Replaces A 323-52T. Last previous edition A 323-76 (1983).

² *Annual Book of ASTM Standards*, Vol 14.02.

³ *Annual Book of ASTM Standards*, Vol 03.05.

⁴ *Annual Book of ASTM Standards*, Vol 03.06.