



Designation: E 371 – 9900

Standard Test Method for the Determination of Boron in Ferroboron¹

This standard is issued under the fixed designation E 371; 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 These test methods cover the chemical analysis of ferroboron having chemical compositions within the following limits:

Element	Concentration, %
Aluminum	2.00 max
Boron	12.0–24.0
Carbon	1.50 max
Chromium	0.75 max
Copper	0.15 max
Lead	0.01 max
Manganese	1.00 max
Molybdenum	1.50 max
Nickel	0.10 max
Phosphorus	0.06 max
Silicon	4.00 max
Sulfur	0.02 max

1.2 The test methods in this standard are contained in the sections indicated below:

	Section
Boron by the Ion-exchange Titrimetric Method (12 to 24 %)	9

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.* Specific precautionary statements are given in Section 5 and in special “Warning” paragraphs throughout these test methods.

2. Referenced Documents

2.1 *ASTM Standards:*

A 323 Specification for Ferroboron²

¹ These test methods are under the jurisdiction of ASTM Committee E-1 E01 on Analytical Chemistry for Metals, Ores, and Related Materials and are the direct responsibility of Subcommittee E01.01 on Iron, Steel, and Ferroalloys.

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