



Designation: A102 – 04 (Reapproved 2025)

Standard Specification for Ferrovanadium¹

This standard is issued under the fixed designation A102; 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 one grade of ferrovanadium.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

A1025/A1025M Specification for Ferrous Alloys and Other Alloying Materials, General Requirements

E365 Test Method for the Determination of Vanadium in Ferrovanadium and Vanadium Alloying Additives (Withdrawn 2005)³

3. General Conditions for Delivery

3.1 Materials furnished to this specification shall conform to the requirements of Specification A1025/A1025M, including

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

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at www.astm.org/contact. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

any supplementary requirements that are indicated in the purchase order. Failure to comply with the general requirements of Specification A1025/A1025M constitutes nonconformance with this specification. In case of conflict between the requirements of this specification and Specification A1025/A1025M, this specification shall prevail.

3.2 Although ferrovanadium is ordered by total net weight, the customary basis of payment is per pound of contained vanadium.

4. Chemical Composition

4.1 The material shall conform to the requirements as to chemical composition specified in Table 1.

4.2 The manufacturer shall furnish an analysis of each shipment showing the percentage of each element specified.

5. Size

5.1 The grade is available in sizes as listed in Table 2.

NOTE 1—The sizes listed in Table 2 are typical as shipped from the manufacturer's plant. Ferrovanadium has a friability code number of "1." It is a tough material, susceptible to little, if any, breakage during shipment or handling.

6. Chemical Analysis

6.1 The chemical analysis of the material shall be made in accordance with the procedure for ferrovanadium as described in Test Method E365 or alternative methods which will yield equivalent results. For elements other than vanadium, the chemical analysis shall be agreed upon by the purchaser and supplier.

6.2 If alternative methods of analysis are used, in case of discrepancy, Test Method E365 shall be used for referee.

6.3 Where no method is given for the analysis for a particular element, the analysis shall be made in accordance with a procedure agreed upon by the manufacturer and the purchaser.