



Designation: A483/A483M – 10 (Reapproved 2025)

Standard Specification for Silicomanganese¹

This standard is issued under the fixed designation A483/A483M; 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 grades of silicomanganese.

1.2 *Units*—The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the standard.

1.2.1 This specification is expressed in both inch-pound units and in SI units (within the text, the SI units are shown in brackets); however, unless the purchase order or contract specifies the applicable M specification designation (SI units), the inch-pound units shall apply.

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

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.

Current edition approved Sept. 1, 2025. Published September 2025. Originally approved in 1963. Last previous edition approved in 2020 as A483/A483M – 10 (2020). DOI: 10.1520/A0483_A0483M-10R25.

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.

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

E11 Specification for Woven Wire Test Sieve Cloth and Test Sieves

3. General Conditions for Delivery

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

4. Chemical Composition

4.1 The various grades shall conform to the requirements as to chemical composition specified in Tables 1 and 2.

4.2 The manufacturer shall furnish an analysis of each shipment showing the percentage of each element specified in Table 1.

4.3 Upon request of the purchaser, the manufacturer shall furnish an analysis for the elements specified in Table 2 on a cumulative basis over a period mutually agreed upon by the manufacturer and the purchaser.

5. Size

5.1 The various grades are available in sizes as listed in Table 3.

5.2 The sizes listed in Table 3 are typical as shipped from the manufacturer's plant. These alloys exhibit varying degrees of friability; therefore, some attrition may be expected in transit, storage, and handling.