



Designation: A701/A701M – 10 (Reapproved 2020)

Standard Specification for Ferromanganese-Silicon¹

This standard is issued under the fixed designation A701/A701M; 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 a manganese-silicon alloy.

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
[A1025/A1025M Specification for Ferroalloys and Other Alloying Materials, General Requirements](#)

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 March 1, 2020. Published March 2020. Originally approved in 1974. Last previous edition approved in 2015 as A701/A701M – 10 (2015). DOI: 10.1520/A0701_A0701M-10R20.

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

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 Requirements

4.1 The alloy shall conform to the chemical requirements as specified in [Tables 1 and 2](#).

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

5. Size

5.1 The alloy is available in the sizes shown in [Table 3](#).

5.2 The sizes listed in [Table 3](#) are typical of the product as shipped from the seller's plant. Some deterioration of size can be expected in transit.

6. Chemical Analysis

6.1 Chemical methods are subject to agreement between the purchaser and supplier.

6.2 *Special Analysis Requirements*—Analysis for additional elements other than those listed in [Tables 1 and 2](#) shall be agreed upon between the purchaser and the manufacturer. Such elements in trace quantities shall be reported as less than "<" the limit of analytical equipment. This shall be agreed upon between the purchaser and the manufacturer.

7. Keywords

7.1 ferromanganese-silicon