



Designation: A482/A482M – 11 (Reapproved 2016)

Standard Specification for Ferrochrome-Silicon¹

This standard is issued under the fixed designation A482/A482M; 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 several grades of ferrochrome-silicon.

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 non-conformance with the standard.

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

1.2.2 Within the text, the SI units are shown in brackets.

2. Referenced Documents

2.1 *ASTM Standards*:²

[A1025 Specification for Ferrous Alloys and Other Alloying Materials, General Requirements](#)

[E11 Specification for Woven Wire Test Sieve Cloth and Test Sieves](#)

[E364 Test Methods for Chemical Analysis of Ferrochrome-Silicon \(Withdrawn 2006\)](#)³

3. General Conditions for Delivery

3.1 Materials furnished to this specification shall conform to the requirements of Specification [A1025](#), including any supplementary requirements that are indicated in the purchase order. Failure to comply with the general requirements of Specification [A1025](#) constitutes nonconformance with this specification. In case of conflict between the requirements of this specification and Specification [A1025](#), this specification shall prevail.

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, 2016. Published September 2016. Originally approved in 1963. Last previous edition approved in 2011 as A482/A482M – 11. DOI: 10.1520/A0482_A0482M-11R16.

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

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 The values shown in [Table 2](#) are expected maximums. Upon request of the purchaser, the manufacturer shall furnish an analysis for any of these elements on a cumulative basis over a period mutually agreed upon between 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. A quantitative test is not available for rating relative friability of ferroalloys. A code system has been developed, therefore, for this purpose, and a number rating each product type is shown in the last column of [Table 3](#). Definitions applicable to these code numbers are given in Specification [A1025](#).

6. Chemical Analysis

6.1 The chemical analysis of the material shall be made in accordance with the procedure for the ferroalloys as described in Test Methods [E364](#), or alternative methods, agreed upon by the purchaser and supplier, that will yield equivalent results.

6.2 If alternative methods of analysis are used, in case of discrepancy, Test Methods [E364](#) shall be used for reference.

6.3 Where a method is not given in Test Methods [E364](#) for the analysis of a particular element, the analysis shall be made in accordance with a procedure agreed upon between the manufacturer and the purchaser.

7. Keywords

7.1 ferrochrome; ferrochrome silicon

*A Summary of Changes section appears at the end of this standard