

**Designation: A482/A482M - 11** 

# StandardSpecification for Ferrochrome-Silicon<sup>1</sup>

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 ( $\varepsilon$ ) indicates an editorial change since the last revision or reapproval.

#### 1. Scope\*

- 1.1 This specification covers several grades of ferrochromesilicon
- 1.2 *Units*—The values stated in either SI units or inchpound 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; 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:<sup>2</sup>

A1025 Specification for Ferroalloys 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E364 Test Methods for Chemical Analysis of Ferrochrome-Silicon (Withdrawn 2006)<sup>3</sup>

#### 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.

#### 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

<sup>&</sup>lt;sup>1</sup> 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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<sup>&</sup>lt;sup>2</sup> 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

<sup>&</sup>lt;sup>3</sup> The last approved version of this historical standard is referenced on www.astm.org.