



Designation: ~~A99–03 (Reapproved 2009)~~ **A99 – 03 (Reapproved 2014)**

Standard Specification for Ferromanganese¹

This standard is issued under the fixed designation A99; 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 ten grades of ferromanganese, designated as follows:

Standard ferromanganese	Grade A
	Grade B
	Grade C
Medium-carbon ferromanganese	Grades A,B,C, and D
	Nitrided
Low-carbon ferromanganese	Grade A
	Grade B

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.

2. Referenced Documents

2.1 *ASTM Standards*:²

[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 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 various grades are available in sizes as listed in [Table 2](#).

5.2 The sizes and friability ratings listed in [Table 2](#) 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 code system has been developed. Therefore, for this purpose, a number rating for each product type is shown in the last column of [Table 2](#). Definitions applicable to these code numbers are given in Specification [A1025/A1025M](#).

6. Keywords

6.1 ferrous alloy; ferromanganese

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 ~~April 1, 2009~~ Oct. 1, 2014. Published ~~May 2009~~ October 2014. Originally approved in 1925. Last previous edition approved in ~~2003~~ 2009 as ~~A99–03~~ A99 – 03(2009). DOI: ~~10.1520/A0099-03R09~~ 10.1520/A0099-03R14.

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.