



## Designation: ~~A922 – 05 (Reapproved 2010)~~ A922 – 05 (Reapproved 2015)

# Standard Specification for Silicon Metal<sup>1</sup>

This standard is issued under the fixed designation A922; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This specification covers several grades of silicon metal.

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. The SI equivalents of inch-pound units given may be approximate.

## 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](#)

[E50 Practices for Apparatus, Reagents, and Safety Considerations for Chemical Analysis of Metals, Ores, and Related Materials](#)

[E60 Practice for Analysis of Metals, Ores, and Related Materials by Spectrophotometry](#)

[E360 Test Methods for Chemical Analysis of Silicon and Ferrosilicon \(Withdrawn 2006\)](#)<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 grades shall conform to the requirements as to the chemical composition specified in [Table 1](#).

4.2 The manufacturer shall furnish an analysis of each shipment showing the percentage of each element specified.<sup>2015</sup>

4.3 Upon request of the purchaser, the manufacturer shall furnish an analysis of any trace elements on a schedule mutually agreed upon between the supplier and the purchaser.

## 5. Size

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

<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>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>3</sup> The last approved version of this historical standard is referenced on [www.astm.org](http://www.astm.org).

TABLE 1 Chemical Requirements

Element	Composition %		
	Grade A	Grade B	Grade C
Silicon	>98.00	89.00 to 97.99	80.00 to 88.99
Iron	...	4.00 max	4.00 max