



Designation: A 144 – 04

## Standard Specification for Ferrotungsten<sup>1</sup>

This standard is issued under the fixed designation A 144; 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 four grades of ferrotungsten.

### 2. Referenced Documents

2.1 *ASTM Standards:*<sup>2</sup>

A 1025 Specification for Ferroalloys, General Requirements

### 3. General Conditions for Delivery

3.1 Materials furnished to this specification shall conform to the requirements of Specification A 1025, including any supplementary requirements that are indicated in the purchase order. Failure to comply with the general requirements of Specification A 1025 constitutes nonconformance with this specification. In case of conflict between the requirements of this specification and Specification A 1025, this specification shall prevail.

### 4. Chemical Composition

4.1 The material 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. The manufacturer shall supply on request the results of an analysis for the elements in Table 2, 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 the sizes listed in Table 3.

TABLE 3 Size Tolerance

Size	Tolerance
¼ in. (6.3 mm) by down	5 % max retained on 6.3 mm (¼ in.) sieve, 20 % max under 70 mesh
⅜ in. (9.5 mm) by down	5 % max over 9.5 mm (⅜ in.) sieve, 20 % max under 70 mesh

### 6. Keywords

6.1 ferroalloy; ferrotungsten

<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.