



Designation: A835/A835M – 10 (Reapproved 2020)

Standard Specification for Sizes of Ferrous Alloys and Alloy Additives¹

This standard is issued under the fixed designation A835/A835M; 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 standard nominal sizes and size tolerances of screened ferrous alloy and alloy additive products. This specification provides a range of sizes as referenced in all ASTM specifications for ferrous alloys and alloy additives.

1.2 The sizes and tolerances allow for varying degrees of friability upon receipt of material since some attrition may be expected in transit, storage, and handling.

1.3 Specifications of sieve sizes used to define tolerances are listed in Specification E11. Representative procedures for evaluation of each lot are described in Test Methods A610. Refer to Appendix X1 for applicable sieve designations (see Table X1.1).

1.4 *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 nonconformance with the standard.

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

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.

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1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

A610 Test Methods for Sampling and Testing Ferrous Alloys for Determination of Size

E11 Specification for Woven Wire Test Sieve Cloth and Test Sieves

3. Dimensional Requirements

3.1 Screened products shall conform to the sizes given in Table 1.

3.1.1 The sizes listed in Table 1 are typical as shipped from the manufacturer's plant. Ferrous 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 ferrous alloys. A code system has been developed, therefore, for this purpose, and a number rating each product type is given.

NOTE 1—For further description of friability ratings for ferrous alloys, refer to Appendix X2.

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.