



Designation: A835/A835M – 84 (Reapproved 2010)

Standard Specification for Sizes of Ferroalloys 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 ferroalloy and alloy additive products. This specification provides a range of sizes as referenced in all ASTM specifications for ferroalloys 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 Methods A610. Refer to Appendix X1 for applicable sieve designations (see Table X1.1).

2. Referenced Documents

2.1 *ASTM Standards:*²

A610 Test Methods for Sampling and Testing Ferroalloys 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. Ferroalloys exhibit varying degrees

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, 2010. Published May 2010. Originally approved in 1984. Last previous edition approved in 2005 as A835/A835M - 84 (2005). DOI: 10.1520/A0835_A0835M-84R10.

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.

TABLE 1 Requirements for Screened Products^A

Nominal Size, in.	Standard Ordered Size, in. ^B	Maximum Allowable Oversize		Maximum Allowable Undersize		Friability Rating Code No. ^C
		Size	Percent	Size	Percent	
<i>Lump to Crushed Sizes:</i>						
6	8 by 4	to 10 in.	10 %	through 4 in.	10 %	1-6
5	8 by 2	to 10 in.	10 %	through 2 in.	10 %	1-6
4	6 by 2	to 8 in.	10 %	through 2 in.	10 %	1-6
3½	5 by 2	to 7 in.	10 %	through 2 in.	10 %	1-6
3 (A)	5 by 1	to 7 in.	10 %	through 1 in.	10 %	1-6
3 (B)	4 by 2	to 6 in.	10 %	through 2 in.	10 %	1-6
2½	4 by 1	to 6 in.	10 %	through 1 in.	10 %	1-6
2¼	4 by ½	to 5 in.	10 %	through ½ in.	10 %	1-6
2	3 by 1	to 4 in.	10 %	through 1 in.	10 %	1-6
1½	3 by ½	to 4 in.	10 %	through ½ in.	10 %	1-6
1¼	2 by ½	to 3 in.	10 %	through ½ in.	10 %	1-6
1⅓	2 by ¼	to 3 in.	10 %	through ¼ in.	10 %	1-6
<i>Small Crushed Sizes by Down:</i>						
2	4 by D	to 5 in.	10 %	through ½ in.	15 %	1-6
1½	3 by D	to 4 in.	10 %	through ⅓ in.	15 %	1-6
1	2 by D	to 3 in.	10 %	through ⅓ in.	15 %	1-4
		to 3 in.	8 %	through No. 8	20 %	5,6
½	1 by D	to 1½ in.	10 %	through No. 16	15 %	1-4
		to 1½ in.	8 %	through No. 20	15 %	5,6
¼	½ by D	to ¾ in.	10 %	through No. 20	15 %	1-4
		to ¾ in.	8 %	through No. 70	20 %	5,6

^AFor screened products below ½ in. by down-crushed sizes, size tolerances should be agreed upon between manufacturer and purchaser.

^B1 in. = 25.4 mm.

^CSee Appendix X2 for description of rating code.

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 given.

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