

Designation: A835/A835M - 10 (Reapproved 2015)

Standard Specification for Sizes of Ferroalloys and Alloy Additives¹

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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).
- 1.4 *Units*—The values stated in either SI units or inchpound 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.

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 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.

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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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. [mm]	Standard	Maximum		Maximum		Friability	=
	Ordered Size, in. [mm]	Allowable Oversize		Allowable Undersize		Rating Code	
		Size in. [mm]	Percent	Size in. [mm]	Percent	No. ^B	_
Lump to (Crushed Siz	es.					
6 [150]	8 [200] by 4 [100]	to 10 [250]	10 %	through 4 [100]	10 %	1–6	
5 [125]	8 [200] by 2 [50]	to 10 [250]	10 %	through 2 [50]	10 %	1–6	
4 [100]	6 [150] by 2 [50]	to 8 [200]	10 %	through 2 [50]	10 %	1–6	
3½ [90]	5 [125] by 2 [50]	to 7 [175]	10 %	through 2 [50]	10 %	1–6	
3 [75] (A)	5 [125] by 1 [25]	to 7 [175]	10 %	through 1 [25]	10 %	1–6	
3 [75] (B)	4 [100] by 2 [50]	to 6 [150]	10 %	through 2 [50]	10 %	1–6	
2½ [65]	4 [100] by 1 [25]	to 6 [150]	10 %	through 1 [25]	10 %	1–6	
21/4 [60]	4 [100] by ½ [15]	to 5 [125]	10 %	through ½ [15]	10 %	1–6	
2 [50]	3 [75] by 1 [25]	to 4 [100]	10 %	through 1 [25]	10 %	1–6	
1½ [40]	3 [75]	to 4	10 %	through	10 %	1–6	
	by ½ [15]	[100]		1/2 [15]			
11/4 [30]	2 [50] by ½ [15]	to 3 [75]	10 %	through 1/2 [15]	10 %	1–6	
11/8 [30]	2 [50] by 1/4	to 3 [75]	10 %	through 1/4 [5]	10 %	1–6	
Small Cru	[5] Ished Sizes	by Down:					
2 [50]	4 [100] by D	to 5[125]	10 % 11 00-4b	through ½ [15]	2- 15 % 2- 07	5e31 - 6	
1½ [40]	3 [75]	to 4	10 %	through	15 %	1–6	
1 [25]	by D 2 [50] by D	[100] to 3[75]	10 %	½ [3] through ½ [3]	15 %	1–4	
		to 3 [75]	8 %	through No. 8	20 %	5,6	
½ [15]	1 [25] by D	to 1½ [40]	10 %	through No. 16	15 %	1–4	
1/4	½ [15]	to 1½ [40] to ¾	8 % 10 %	through No. 20 through	15 % 15 %	5,6 1–4	
,-	by D	[20] to 3/4 [20]	8 %	No. 20 through No. 70	20 %	5,6	

^A For screened products below ½ in. [15] by down-crushed sizes, size tolerances should be agreed upon between manufacturer and purchaser.

B See Appendix X2 for description of rating code.