



Designation: A 835 – 84 (Reapproved 2000)

Standard Specification for Sizes of Ferroalloys and Alloy Additives¹

This standard is issued under the fixed designation A 835; 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 approval. 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 E 11. Representative procedures for evaluation of each lot are described in Methods A 610. Refer to Appendix X1 for applicable sieve designations (see Table X1.1).

2. Referenced Documents

2.1 ASTM Standards:

- A 610 Methods of Sampling and Testing Ferroalloys for Determination of Size²
- E 11 Specification for Wire-Cloth Sieves for Testing Purposes³

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

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
1⅛	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 [n]P	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.

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 A-1 on Steel, Stainless Steel, and Related Alloys and is the direct responsibility of Subcommittee A01.18 on Castings. Current edition approved Oct. 25, 1984. Published December 1984.

² Annual Book of ASTM Standards, Vol 01.02.

³ Annual Book of ASTM Standards, Vol 14.02.