



Designation: A 132 – 89 (Reapproved 2000)

Standard Specification for Ferromolybdenum¹

This standard is issued under the fixed designation A 132; 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 one grade of ferromolybdenum (formerly Grade B).

1.2 The values stated in inch-pound units are to be regarded as the standard.

2. Referenced Documents

2.1 *ASTM Standards:*

E 11 Specification for Wire-Cloth Sieves for Testing Purposes²

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications²

E 31 Methods for Chemical Analysis of Ferroalloys³

E 32 Practices for Sampling Ferroalloys and Steel Additives for Determination of Chemical Composition³

3. Ordering Information

3.1 Orders for material under this specification shall include the following information:

3.1.1 Quantity,

3.1.2 Name of material,

3.1.3 ASTM designation and year of issue,

3.1.4 Grade,

3.1.5 Size, and

3.1.6 Requirements for packaging, analysis reports, etc., as appropriate.

3.2 Although ferromolybdenum is ordered by total net weight, the customary basis of payment is per pound of contained molybdenum.

4. Size

4.1 This grade is available in sizes as listed in Table 1.

4.2 The sizes listed in Table 1 are typical as shipped from the manufacturer's plant. These alloys exhibit varying degrees of friability; therefore, some attrition may be expected in transit, storage, and handling.

TABLE 1 Ferromolybdenum Size Requirements

Product	Size Requirements	Tolerance ^A
Ferromolybdenum	2 in. and under	10 % max retained on 2-in. (50-mm) sieve 10 % max passing ¼-in. (6.3-mm) sieve
	1½ in. and under	10 % max retained on 1½-in. (37.5-mm) sieve 10 % max passing ¼-in. (6.3-mm) sieve
	¾ in. and under	10 % max retained on ¾-in. (19.0-mm) sieve 10 % max passing No. 20 (850- μ m) sieve
	4 mesh and under	10 % max retained on No. 4 (4.75-mm) sieve 10 % max passing No. 80 (180- μ m) sieve
	20 mesh and under	10 % max retained on No. 20 (850- μ m) sieve
	80 mesh and under	10 % max retained on No. 80 (180- μ m) sieve

^A Specification of sieves sizes used to define tolerances herein are as listed in Specification E 11.

5. Sampling

5.1 The material shall be sampled in accordance with Practices E 32.

5.2 Other methods of sampling mutually agreed upon by the manufacturer and the purchaser may be used; however, in case of discrepancy, Practices E 32 shall be used for referee.

6. Chemical Analysis

6.1 The chemical analysis of the material shall be made in accordance with the procedure for ferromolybdenum, as described in Methods E 31, or alternative methods which will yield equivalent results.

6.2 If alternative methods of analysis are used, in case of discrepancy, Methods E 31 shall be used for referee.

6.3 Where no method is given in Methods E 31 for the analysis for a particular element, the analysis shall be made in accordance with a procedure agreed upon by the manufacturer and the purchaser.

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 February 24, 1989. Published April 1989. Originally published as A 132 – 63 T. Last previous edition A 132 – 74 (1984).

² *Annual Book of ASTM Standards*, Vol 14.02.

³ *Annual Book of ASTM Standards*, Vol 03.05.