

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 reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope*

1.1 This specification covers two grades of ferromolybdenum.

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

2. Referenced Documents

2.1 ASTM Standards: ²

A 1025 Specification for Ferroalloys, General Requirements

E 11 Specification for Wire-Cloth Sieves for Testing Purposes

3. General Conditions for Delivery

3.1 Materials furnished to this specification shall conform to the requirements of Specification A 1025, including any supplementary requirements that are indicated in the purchase order. Failure to comply with the general requirements of Specification A 1025 constitutes nonconformance with this specification. In case of conflict between the requirements of this specification and Specification A 1025, this specification shall prevail.

4. Chemical Requirements

4.1 The material shall conform to the requirements as to chemical composition specified in Table 1. The manufacturer shall furnish an analysis of each shipment showing the percentage of each element specified.

5. Size

5.1 The grades are available in sizes as listed in Table 2.

5.2 The sizes listed in Table 2 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.

6. Keywords

6.1 ferromolybdenum; molybdenum

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.

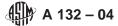


TABLE 1 Chemical Requirements (maximum unless otherwise indicated)

Grade	A1	A2				
Molybdenum, min	60.0	60.0				
Carbon	0.10	0.10				
Phosphorous	0.050	0.050				
Sulfur	0.15	0.15				
Silicon	1.0	1.0				
Copper	1.0	0.20				

TABLE 2 Ferromolybdenum Size Requirements

Product	Size Requirements	Tolerance ^A	
Ferromolyb- denum	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	
	⅔ in. and under	10 % max retained on ¾-in. (19.0- mm) sieve 10 % max passing No. 20 (850-μm) sieve	
	4 mesh and under	10 % max retained on No. 4 (4.75- mm) sieve 10 % max passing No. 80 (180-µm) sieve	
	20 mesh and under 80 mesh and under	10 % max retained on No. 20 (850- μm) sieve 10 % max retained on No. 80 (180- μm) sieve	

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

SUPPLEMENTARY REQUIREMENTS

The composition shall be further limited to the requirements of Table S1.1 in addition to those in Table 1. The manufacturer shall furnish an analysis of each shipment showing the percentage of each element specified.

Element	Composition, max, %		
	Ferromolybdenum		
Lead	0.010		
Tin	0.010		

TABLE S1.1 Supplementary Chemical Requirements

SUMMARY OF CHANGES

Committee A01 has identified the location of selected changes to this standard since the last version (A 132 - 89 (2000)) that may impact the use of this standard.

(1) Specification A1025 added to 2.

(2) Practice E29,	Test M	/lethods	E31,	and	Practices	E32	were
removed from 2.							

(3) The section on Ordering Information was changed to General Conditions for Delivery.

(4) Section 4 was revised and moved.

(5) Section 5 was revised.

(6) Sections on Sampling, Chemical Analysis, Rejection, Product Marking, and Packing were removed.(7) Supplementary Requirements section was added.(8) A new Table 1 was added.

(9) The previous Table 1 was renumbered as Table 2.

(10) The previous Table 2 was removed.

(11) The previous Table 3 was renumbered as Table S1.1.

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