



Standard Specification for Aluminum Bronze Sheet, Strip, and Rolled Bar¹

This standard is issued under the fixed designation B 169/B 169M; 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.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope *

1.1 This specification² establishes the requirements for Copper Alloy UNS Nos. C61300 and C61400 aluminum bronze sheet, strip, and rolled bar.

1.2 The products made to this specification are commonly used for drawing, forming, stamping, and bending applications and are not intended for electrical applications.

NOTE 1—The products produced under this general specification may be used in many applications in which the individual requirements may be too specific to be determined by normal physical or mechanical testing. Therefore, it may be advisable for the purchaser to submit samples or drawings to the manufacturer to be assured that the product furnished is suitable for the intended application.

NOTE 2—Refer to Specification B 171/B 171M for plate product.

1.3 The values stated in inch-pound or SI units are to be regarded separately as standard. The values in each system are not exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the specification.

2. Referenced Documents

2.1 The following documents in the current Book of Standards form a part of this specification to the extent referenced herein:

2.2 ASTM Standards:

B 171/B 171M Specification for Copper Alloy Plate and Sheet for Pressure Vessels, Condensers and Heat Exchangers³

B 248 Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip and Rolled Bar³

B 248M Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip and Rolled Bar [Metric]³

B 601 Classification for Temper Designations for Copper

and Copper Alloys—Wrought and Cast³

B 846 Terminology for Copper and Copper Alloys³

E 8 Test Methods for Tension Testing of Metallic Materials⁴

E 8M Test Methods for Tension Testing of Metallic Materials [Metric]⁴

E 54 Test Methods for Chemical Analysis of Special Brasses and Bronzes⁵

E 62 Test Methods for Chemical Analysis of Copper and Copper Alloys (Photometric)⁵

E 290 Test Methods for Bend Testing for Ductility⁴

E 478 Test Methods for Chemical Analysis of Copper Alloys⁵

3. General Requirements

3.1 The following sections of Specifications B 248 or B 248M form a part of this specification:

3.1.1 Terminology,

3.1.2 Workmanship, Finish and Appearance,

3.1.3 Sampling,

3.1.4 Significance of Numerical Limits,

3.1.5 Inspection,

3.1.6 Rejection and Rehearing,

3.1.7 Certification,

3.1.8 Mill Test Reports,

3.1.9 Packaging and Package Marking,

3.1.10 Supplementary Requirements.

3.2 In addition, when a section with a title identical to that referenced in 3.1 appears in this specification, it contains additional requirements which supplement those appearing in Specifications B 248 or B 248M.

4. Terminology

4.1 For definitions of terms related to copper and copper alloys, refer to Terminology B 846.

5. Ordering Information

5.1 Orders for products under this specification should include the following information:

5.1.1 ASTM designation and year of issue (for example, B 169/B 169M – 00),

¹ This specification is under the jurisdiction of ASTM Committee B05 on Copper and Copper Alloys and is the direct responsibility of Subcommittee B05.01 on Plate, Sheet, and Strip.

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² For ASME Boiler and Pressure Vessel Code applications, see related Specification SB-169 in Section II of that code.

³ Annual Book of ASTM Standards, Vol 02.01.

⁴ Annual Book of ASTM Standards, Vol 03.01.

⁵ Annual Book of ASTM Standards, Vol 03.05.

***A Summary of Changes section appears at the end of this standard.**