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ASTM B169M-88  
NOTICE 1  
9 November 1990  
SUPERSEDING  
ASTM B169M-83  
13 May 1985

## ADOPTION NOTICE

## ALUMINUM BRONZE PLATE, SHEET, STRIP, AND ROLLED BAR [METRIC]

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ASTM B169M-96

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FSC 9535

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**Designation: B 169M - 96**  
**METRIC**

AMERICAN SOCIETY FOR TESTING AND MATERIALS  
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## Standard Specification for Aluminum Bronze Sheet, Strip, and Rolled Bar [Metric]<sup>1</sup>

This standard is issued under the fixed designation 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope\*

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

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

1.2 SI units are standard for this specification.

1.3 This specification is the SI (metric) companion to the inch-pound Specification B 169.

NOTE 1—The products produced under this general specification may be used in many applications where 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 in order to be assured that the product furnished is suitable for the intended application.

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

### 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:

2.1.1 *ASTM Standards*:

B 169 Specification for Aluminum Bronze Sheet, Strip and Rolled Bar<sup>2</sup>

B 171M Specification for Copper Alloy Plate and Sheet for Pressure Vessels, Condensers and Heat Exchangers [Metric]<sup>2</sup>

B 248M Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip and Rolled Bar [Metric]<sup>2</sup>

B 601 Practice for Temper Designations for Copper and Copper Alloys—Wrought and Cast

E 8M Test Methods for Tension Testing of Metallic Specimens [Metric]<sup>3</sup>

E 54 Test Methods for Chemical Analysis of Special Brasses and Bronzes<sup>4</sup>

E 62 Test Methods for Chemical Analysis of Copper and Copper Alloy (Photometric Method)<sup>4</sup>

E 290 Test Method for Semi-Guided Bend Test for Ductility of Metallic Materials<sup>3</sup>

E 478 Test Methods for Chemical Analysis of Copper Alloys<sup>4</sup>

### 3. Ordering Information

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

3.1.1 ASTM designation and year of issue,

3.1.2 Copper Alloy UNS No. (for example, C61300),

3.1.3 Temper (see Section 7),

3.1.4 Dimensions, thickness and width (see Section 11),

3.1.5 Length,

3.1.6 How furnished, flat or rolls,

3.1.7 Total Weight; each size,

3.1.8 When product is purchased for ASME Boiler and Pressure Vessel Code Application, and

3.1.9 When product is purchased for agencies of the U.S. Government.

3.2 The following options are available and should be specified when required:

3.2.1 Type of Edge, (for example, slit, sheared, sawed, etc.),

3.2.2 Heat identification or traceability details,

3.2.3 Bend test,

3.2.4 Certification, and

3.2.5 Mill Test Report.

### 4. General Requirements

4.1 The following sections of Specification B 248M form a part of this specification:

4.1.1 Terminology,

4.1.2 Workmanship, Finish and Appearance,

4.1.3 Sampling,

4.1.4 Significance of Numerical Limits,

4.1.5 Inspection,

4.1.6 Rejection and Reheating,

4.1.7 Certification,

4.1.8 Mill Test Reports,

4.1.9 Packaging and Package Marking,

4.1.10 Supplementary Requirements.

4.2 An identical section in this specification is supplementary to the referenced section in Specification B 248M.

### 5. Materials and Manufacture

5.1 *Material:*

5.1.1 The material of manufacture shall be from cast slabs (also termed cakes or ingots) of Copper Alloy UNS Numbers C61300 or C61400 of such purity and soundness as to be suitable for processing into the products prescribed herein.

5.2 *Manufacture:*

<sup>1</sup> This guide is under the jurisdiction of ASTM Committee B-5 on Copper and Copper Alloys and is the direct responsibility of Subcommittee B05.01 on Plate, Sheet and Strip.

Current edition approved Sept. 10, 1996. Published December 1996. Originally published as B 169M - 83. Last previous edition B 169M - 88.

<sup>2</sup> *Annual Book of ASTM Standards*, Vol 02.01.

<sup>3</sup> *Annual Book of ASTM Standards*, Vol 03.01.

<sup>4</sup> *Annual Book of ASTM Standards*, Vol 03.05.

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