



Standard Specification for Brass Plate, Sheet, Strip, And Rolled Bar¹

This standard is issued under the fixed designation B 36/B 36M; 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 specification covers brass plate, sheet, strip, and rolled bar of the following alloys:²

Copper Alloy UNS No. ³	Previously Used Designation	Nominal Composition	
		Copper, %	Zinc, %
C21000	1	95	5
C22000	2	90	10
C22600	...	87.5	12.5
C23000	3	85	15
C24000	4	80	20
C26000	6	70	30
C26800	8	66	34
C27200	9	63	37
C28000	...	60	40

1.2 The values stated in either inch-pound units or SI units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated 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.³

2. Referenced Documents

2.1 The following documents of the issue in effect on date of material purchase form a part of this specification to the extent referenced herein:

2.2 ASTM Standards:

B 248 Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar⁴

B 248M Specification for General Requirements for

Wrought Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar [Metric]⁴

B 601 Practice for Temper Designations for Copper and Copper Alloys—Wrought and Cast⁴

E 8 Test Methods of Tension Testing of Metallic Materials⁵

E 8M Test Methods of Tension Testing of Metallic Materials [Metric]⁵

E 527 Practice for Numbering Metals and Alloys (UNS)⁶

3. Ordering Information

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

3.1.1 Quantity,

3.1.2 Name of material: brass,

3.1.3 Form of material: plate, sheet, strip, or rolled bar,

3.1.4 Alloy number (see 1.1),

3.1.5 Temper (see Section 5),

3.1.6 Dimensions: thickness and width, and length if applicable.

3.1.7 How furnished: rolls, stock lengths with or without ends, specific lengths with or without ends (see 8.4),

3.1.8 Type of edge, if required: slit, sheared, sawed, square corners, rounded corners, rounded edges, or full-rounded edges (see 8.6),

3.1.9 Type of width and straightness tolerances, if required: slit-metal tolerances, square-sheared-metal tolerances, sawed-metal tolerances, straightened or edge-rolled metal tolerances (see 8.3 and 8.5).

3.1.10 ASTM Specification B 36/B 36M, year of issue, and whether inch-pound or SI units are applicable (see 1.2).

3.1.11 Special tests or exceptions, if any.

3.2 In addition, when material is purchased for agencies of the U. S. Government, it shall conform to the Supplementary Requirements as defined in Specification B 248 when specified in the contract or purchase order.

4. Chemical Composition

4.1 The materials shall conform to the compositions prescribed in Table 1.

4.2 These specification limits do not preclude the presence of other elements. Limits for unnamed elements may be

¹ This specification 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.

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² SAE Specifications CA210, CA220, CA230, CA240, CA260, CA268 and CA272 conform to the requirements for Copper Alloy UNS Nos. C21000, C22000, C23000, C24000, C26000, C26800, and C27200, respectively.

³ The UNS system for copper and copper alloys (see Practice E 527) is a simple expansion of the former standard designation system accomplished by the addition of a prefix “C” and a suffix “00.” The suffix can be used to accommodate composition variations of the base alloy.

⁴ Annual Book of ASTM Standards, Vol 02.01.

⁵ Annual Book of ASTM Standards, Vol 03.01.

⁶ Annual Book of ASTM Standards, Vol 01.01.