



Standard Specification for Leaded Brass Plate, Sheet, Strip, and Rolled Bar¹

This standard is issued under the fixed designation B 121/B 121M; 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 copper-zinc-lead alloys (leaded brass) plate, sheet, strip, and rolled bar. The following alloys are covered:²

Copper Alloy UNS No. ²	Previously Used Designation	Nominal Composition, %			
		Copper	Zinc	Lead	Iron
C33500	2	65.0	34.5	0.5	...
C34000	3	65.0	34.0	1.0	...
C34200	5	65.0	33.0	2.0	...
C35000	...	61.5	37.4	1.1	...
C35300	4	61.2	37.0	1.8	...
C35340	...	61.2	36.8	1.8	0.2
C35600	6	61.2	36.3	2.5	...

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.

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 Bar³

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

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.

Current edition approved Sept. 10, 1995. Published November 1995. Originally published as B 121 – 39 T. Last previous edition B 121 – 91.

² 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.

³ *Annual Book of ASTM Standards*, Vol 02.01.

Rolled Bar [Metric]³

B 601 Practice for Temper Designations for Copper and Copper Alloys—Wrought and Cast³

E 8 Test Methods for Tension Testing of Metallic Materials⁴

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

E 527 Practice for Numbering Metals and Alloys (UNS)⁵

3. Ordering Information

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

3.1.1 Copper Alloy UNS number (Section 1),

3.1.2 Temper (Section 5),

3.1.3 Dimensions: thickness and width (see 9.1.1 and 9.1.2),

3.1.4 Type of edge, if required: slit, sheared, sawed, square corners, rounded corners, rounded edges, or full-rounded edges (see 9.1.5),

3.1.5 How furnished (straight lengths or coils),

3.1.6 Lengths (see 9.1.3),

3.1.7 Weight: total for each size, and

3.1.8 ASTM Specification B 121/B 121M, year of issue, and whether inch-pound or SI units are applicable (see 1.2).

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 or B 248M 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 established by agreement between manufacturer or supplier and purchaser.

4.3 Either copper or zinc may be taken as the difference between the sum of all elements analyzed and 100 %. When all

⁴ *Annual Book of ASTM Standards*, Vol 03.01.

⁵ *Annual Book of ASTM Standards*, Vol 01.01.