



Designation: B 135 – 002

Standard Specification for Seamless Brass Tube¹

This standard is issued under the fixed designation B 135; 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 This specification is under the jurisdiction of ASTM Committee B05 on Copper and Copper Alloys and is the direct responsibility of Subcommittee B05.04 on Pipe and Tube.

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1. Scope *

1.1 This specification covers seamless round and rectangular including square copper alloy tube in straight lengths. Ten alloys are specified having the following nominal compositions:

Copper Alloy UNS No. ²	Previously Used Designation ⁴	Nominal Composition, %			
		Copper	Zinc	Lead	Tin
C22000	7	90.0	10.0	...	...
C23000	1	85.0	15.0	...	...
C26000	2	70.0	30.0	...	...
C27000	9	65.0	35.0	...	...
C27200	8	63.0	37.0	...	...
C27400	...	62.5	37.5	...	...
C28000	5	60.0	40.0	...	...
C33000	3	66.0	33.5	0.5	...
C33200	4	66.0	32.4	1.6	...
C37000	6	60.0	39.0	1.0	...
C44300	...	71.5	27.5	...	1.00

⁴ Alloy Designations of ASTM Specification B 135 – 63, which was published in the 1966 Book of ASTM Standards, Part 5.

NOTE 1—A complete metric companion to Specification B 135 has been developed—B 135M; therefore, no metric equivalents are presented in this specification.

1.2 **Warning**—Mercury is a definite health hazard in use and disposal. (See 10.1.)²

1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

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 153 Test Method for Expansion (Pin Test) of Copper and Copper-Alloy Pipe and Tubing³

B 154 Test Method for Mercurous Nitrate Test for Copper and Copper Alloys³

B 251 Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tube³

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

E 243 Practice for Electromagnetic (Eddy-Current) Examination of Copper and Copper-Alloy Tubes⁴

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

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.

⁴ Annual Book of ASTM Standards, Vol 03.03.

⁵ Annual Book of ASTM Standards, Vol 01.01.

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