



Designation: B 306 – 9902

Standard Specification for Copper Drainage Tube (DWV) ¹

This standard is issued under the fixed designation B 306; 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 establishes the requirements for seamless copper tube (DWV) produced from Copper UNS No. C12200 and intended for sanitary drainage, waste, and vent piping.

NOTE 1—Fittings used for soldered or brazed connections in drainage, waste, or vent systems are described in ASME Standards B16.23 and B16.29 and CSA Standard B158.1.

NOTE 2—The assembly of copper drainage, waste, and vent systems by soldering is described in Practice B 828.

NOTE 3—Solders for joining copper drainage, waste, or vent systems are described in Specification B 32. The requirement for acceptable fluxes for these systems are described in Specification B 813.

1.2 Values stated in inch-pound units are the standard. SI values given in parentheses are for information only.

1.3 The following hazard statement pertains only to the test method described in Section 16.2.3 of this specification: *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 ASTM Standards:

B 32 Specification for Solder Metal²

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

B 813 Specification for Liquid and Paste Fluxes for Soldering Applications of Copper and Copper Alloy Tube³

B 828 Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings³

E 8 Test Methods for Tension Testing of Metallic Materials⁴

E 18 Test Methods for Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials⁴

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications⁵

E 53 ~~Test Methods for Chemical Analysis Determination~~ of Copper in Unalloyed Copper by Gravimetry⁶

E 62 Test Methods for Chemical Analysis of Copper and Copper Alloys (Photometric Methods)⁶

E 243 Practice for Electromagnetic (Eddy-Current) Examination of Seamless Copper and Copper-Alloy Tubes⁷

E 255 Practice for Sampling Copper and Copper Alloys for Determination of Chemical Composition⁸

E 527 Practice for Numbering Metals and Alloys (UNS)⁹

2.2 ASME Standards:¹⁰

² Annual Book of ASTM Standards, Vol 02.04.

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 14.02.

⁶ Annual Book of ASTM Standards, Vol 03.056.

⁷ Annual Book of ASTM Standards, Vol 03.03.

⁸ Annual Book of ASTM Standards, Vol 01.01; 03.05.

⁹ Available from ASME, 345 E. 47th St., New York, NY 10017.

¹⁰ Annual Book of ASTM Standards, Vol 01.01.

¹⁰ Available from CSA, 178 Rexdale Rd., Rexdale, ON, Canada M9W 1R3; American Society of Mechanical Engineers (ASME), ASME International Headquarters, Three Park Ave., New York, NY 10016-5990.

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