



Standard Specification for Brass, Copper, and Chromium-Plated Pipe Nipples¹

This standard is issued under the fixed designation B687; 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 U.S. Department of Defense.

1. Scope*

1.1 This specification establishes the requirements for brass and copper pipe nipples in standard pipe sizes from 1/8 to 8 in., inclusive, in standard lengths, and chromium-plated pipe nipples in standard pipe sizes from 1/8 to 2 in., inclusive, in standard lengths.

1.1.1 Chromium-plated pipe nipples ordered under this specification are intended for interior use in decorative applications.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

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 ASTM Standards:²

B42 Specification for Seamless Copper Pipe, Standard Sizes

B43 Specification for Seamless Red Brass Pipe, Standard Sizes

B456 Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium

B846 Terminology for Copper and Copper Alloys

E29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

2.2 ANSI/ASME Standard:

B1.20.1 Pipe Threads, General Purpose (Inch)³

2.3 Military Standard:

MIL-STD-105 Sampling Procedures and Tables for Inspection by Attributes⁴

3. Terminology

3.1 Definitions:

3.1.1 For definitions of terms relating to copper and copper alloys, refer to Terminology **B846**.

4. Ordering Information

4.1 Contracts and purchase orders for product under this specification are to contain the following information:

4.1.1 ASTM specification designation and year of issue,

4.1.2 Type of material (Section 5),

4.1.3 Weight of material; regular or extra strong,

4.1.4 Diameter; nominal or actual outside diameter,

4.1.5 Length; standard or special (**8.2** and **Table 2**), and

4.1.6 Quantity; number of pieces or total weight of each material and size.

4.2 The following options are available under this specification and are to be specified in the contract or purchase order when required:

4.2.1 Chromium plated finish,

4.2.2 Short Plumbing (hospital) threads,

4.2.3 Certification (Section 16), and

4.2.4 Test and Inspection Reports, if required (Section 17).

4.3 In addition, when material is purchased for agencies of the U.S. government, it shall conform to the supplementary requirements as defined herein when specified in the contract or purchase order.

5. Materials and Manufacture

5.1 Copper pipe nipples shall be produced from regular or extra strong pipe conforming to the requirements of Specification **B42**.

5.2 Brass pipe nipples shall be produced from regular or extra strong pipe conforming to the requirements of Specification **B43**.

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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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

⁴ Available from DLA Document Services, Building 4/D, 700 Robbins Ave., Philadelphia, PA 19111-5094, <http://quicksearch.dla.mil>.