



Designation: B929 – 05 (Reapproved 2011)^{ε1}

Standard Specification for Copper-Nickel-Tin Spinodal Alloy Rod and Bar¹

This standard is issued under the fixed designation B929; 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.

^{ε1} NOTE—Editorial corrections made throughout in March 2011.

1. Scope

1.1 This specification establishes the requirements for copper-nickel-tin alloy rod and bar. The following alloy is included:

Copper Alloy UNS No.	Nominal Composition, Weight %		
	Copper	Nickel	Tin
C72900	77	15	8

1.2 *Units*—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 The following safety hazard caveat pertains only to the test method(s) described in this specification.

1.4 *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 to determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

- 2.1 *ASTM Standards*:²
- [B249/B249M Specification for General Requirements for Wrought Copper and Copper-Alloy Rod, Bar, Shapes and Forgings](#)
 - [B846 Terminology for Copper and Copper Alloys](#)
 - [E8/E8M Test Methods for Tension Testing of Metallic Materials](#)
 - [E18 Test Methods for Rockwell Hardness of Metallic Materials](#)
 - [E53 Test Method for Determination of Copper in Unalloyed Copper by Gravimetry](#)

¹ This specification is under the jurisdiction of ASTM Committee B05 on Copper and Copper Alloys and is the direct responsibility of Subcommittee B05.02 on Rod, Bar, Wire, Shapes and Forgings.

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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.

- [E75 Test Methods for Chemical Analysis of Copper-Nickel and Copper-Nickel-Zinc Alloys \(Withdrawn 2010\)³](#)
- [E478 Test Methods for Chemical Analysis of Copper Alloys](#)

3. General Requirements

3.1 The following sections of Specification [B249/B249M](#) constitute a part of this specification:

- 3.1.1 Dimensions, Mass and Permissible Variations,
- 3.1.2 Number of Tests and Retests,
- 3.1.3 Specimen Preparation,
- 3.1.4 Significance of Numerical Limits,
- 3.1.5 Inspection,
- 3.1.6 Rejection and Rehearing,
- 3.1.7 Certification,
- 3.1.8 Packaging and Package Marking, and
- 3.1.9 Supplementary Requirements.

3.2 In addition, when a section with a title identical to that referenced in 3.1 above appears in this specification, it contains additional requirements which supplement those appearing in Specification [B249/B249M](#).

4. Terminology

4.1 *Definitions*—For definitions of terms related to copper and copper alloys, refer to Terminology [B846](#).

5. Ordering Information

5.1 Include the following information when placing orders for product under this specification, as applicable:

- 5.1.1 ASTM designation and year of issue,
- 5.1.2 Copper Alloy UNS No. C72900,
- 5.1.3 Temper (Section 8),
- 5.1.4 Dimensions—diameter or distance between parallel surfaces, width, thickness, and length,
- 5.1.5 How furnished—stock lengths or specific lengths, with or without ends, and
- 5.1.6 Quantity—total weight or total length or number of pieces of each size.

³ The last approved version of this historical standard is referenced on www.astm.org.