



Standard Specification for Copper Flat Products with Finished (Rolled or Drawn) Edges (Flat Wire and Strip)¹

This standard is issued under the fixed designation B272; 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 copper products, flat wire and strip, with rolled or drawn finished edges produced for general application.

1.1.1 The product is produced in UNS Copper Nos. C10100, C10200, C10300, C10500, C10700, C10800, C11000, C11040, C12200, and C14200 unless otherwise established by agreement between manufacturer and purchaser.

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

NOTE 1—When a copper other than that listed in 1.1.1 is designated by the purchaser, the resulting product shall conform to the physical, mechanical, performance, dimensional, and tolerance requirements per agreement between the manufacturer and purchaser.

2. Referenced Documents

2.1 ASTM Standards:²

- [B49 Specification for Copper Rod Drawing Stock for Electrical Purposes](#)
- [B170 Specification for Oxygen-Free Electrolytic Copper—Refinery Shapes](#)
- [B193 Test Method for Resistivity of Electrical Conductor Materials](#)
- [B248 Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar](#)
- [B250/B250M Specification for General Requirements for Wrought Copper Alloy Wire](#)
- [B577 Test Methods for Detection of Cuprous Oxide \(Hydrogen Embrittlement Susceptibility\) in Copper](#)

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.

- [B846 Terminology for Copper and Copper Alloys](#)
- [B950 Guide for Editorial Procedures and Form of Product Specifications 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](#)
- [E62 Test Methods for Chemical Analysis of Copper and Copper Alloys \(Photometric Methods\) \(Withdrawn 2010\)³](#)
- [E290 Test Methods for Bend Testing of Material for Ductility](#)
- [E478 Test Methods for Chemical Analysis of Copper Alloys](#)

3. General Requirements

3.1 The following sections of Specification B248 constitute a part of this specification for strip products and of Specification B250/B250M for flat wire products:

- 3.1.1 Terminology,
- 3.1.2 Materials and Manufacture,
- 3.1.3 Workmanship, Finish, and Appearance,
- 3.1.4 Sampling,
- 3.1.5 Number of Tests and Retests,
- 3.1.6 Specimen Preparation,
- 3.1.7 Test Methods,
- 3.1.8 Significance of Numerical Limits,
- 3.1.9 Inspection,
- 3.1.10 Rejection and Rehearing,
- 3.1.11 Certification,
- 3.1.12 Test Reports,
- 3.1.13 Packaging and Package Marking, and
- 3.1.14 Supplementary Requirements.

3.2 In addition, when a section with a title identical to that referenced in 3.1 appears in this specification, it contains additional requirements that supplement those appearing in Specifications B248 or B250/B250M, or both.

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

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