



Designation: B 272 – 012

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 B 272; 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 B05.02 on Rod, Bar, Wire, Shapes, and Forgings.

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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*—The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are for information only.

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:

B 5 Specification for High Conductivity Tough-Pitch Copper Refinery Shapes²

B 170 Specification for Oxygen-Free Electrolytic Copper Refinery Shapes²

B 193 Test Method for Resistivity of Electrical Conductor Materials³

B 248 Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar²

B 250/B 250M Specification for General Requirements for Wrought Copper-Alloy Wire²

B 379 Specification for Phosphorized Coppers—Refinery Shapes²

B 577 Test Methods for Detection of Cuprous Oxide (Hydrogen Embrittlement Susceptibility) in Copper²

B 846 Terminology for Copper and Copper Alloys²

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 53 Test Method for Determination of Copper in Unalloyed Copper by Gravimetry⁵

E 62 Test Method for Chemical Analysis of Copper and Copper Alloys (Photometric Methods)⁵

E 290 Test Method for Bend Testing of Material for Ductility⁴

E 478 Test Method for Chemical Analysis of Copper Alloys⁵

3. General Requirements

3.1 The following sections of Specification B 248 constitute a part of this specification for strip products and of Specification B 250 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,

² Annual Book of ASTM Standards, Vol 02.01.

³ Annual Book of ASTM Standards, Vol 02.03.

⁴ Annual Book of ASTM Standards, Vol 03.01.

⁵ Annual Book of ASTM Standards, Vol 03.056.

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