



Designation: B950 – 23

Standard Guide for Editorial Procedures and Form of Product Specifications for Copper and Copper Alloys¹

This standard is issued under the fixed designation B950; 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.

1. Scope*

1.1 This guide covers the editorial procedures and form and style for product specifications under the jurisdiction of ASTM Committee B05 on Copper and Copper Alloys.

NOTE 1—For standards other than product specifications, such as test methods, practices, and guides, see the appropriate sections of Form and Style for ASTM Standards (Blue Book).²

1.2 This guide has been prepared as a supplement to the current edition of the Form and Style Manual, and is appropriate for use by the subcommittees within ASTM Committee B05 on Copper and Copper Alloys. This guide is to be applied in conjunction with the Form and Style Manual. The Appendix contains a copy of the B05 electronic template which includes adopted language for various sections and provides a template for drafting B05 product specifications.

NOTE 2—The contents of this guide were previously maintained as a white paper under the title, “ASTM Committee B05 Outline of Form of Specifications.”

1.3 Subcommittees preparing new product specifications or revising existing ones should follow the practices and procedures outlined herein, and be guided by the latest specifications covering similar commodities.

1.4 If a conflict exists between this guide and the mandatory sections of the current edition of the Form and Style Manual, the Form and Style Manual requirements have precedence. If a conflict exists between this guide and the nonmandatory sections of the current edition of the Form and Style Manual, this guide has precedence.

1.5 When patents are involved, the specifications writer should refer to the Form and Style Manual section on patents and trademarks. Also, refer to part F of the Form and Style Manual for trademark information and the safety hazards caveat.

¹ This guide is under the jurisdiction of ASTM Committee B05 on Copper and Copper Alloys and is the direct responsibility of Subcommittee B05.91 on Editorial and Publications.

Current edition approved Oct. 1, 2023. Published October 2023. Originally approved in 2006. Last previous edition approved in 2022 as B950–22. DOI: 10.1520/B0950-23.

² Available from ASTM website at: https://www.astm.org/media/pdf/bluebook_FormStyle.pdf.

1.6 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:³

- B153 Test Method for Expansion (Pin Test) of Copper and Copper-Alloy Pipe and Tubing
- B154 Test Method for Mercurous Nitrate Test for Copper Alloys
- B170 Specification for Oxygen-Free Electrolytic Copper—Refinery Shapes
- B193 Test Method for Resistivity of Electrical Conductor Materials
- B194 Specification for Copper-Beryllium Alloy Plate, Sheet, Strip, and Rolled Bar
- B216 Specification for Tough-Pitch Fire-Refined Copper—Refinery Shapes
- B224 Classification of Coppers
- B248 Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar
- B248M Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar (Metric)
- B249/B249M Specification for General Requirements for Wrought Copper and Copper-Alloy Rod, Bar, Shapes and Forgings
- B250/B250M Specification for General Requirements for Wrought Copper Alloy Wire
- B251/B251M Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tube
- B577 Test Methods for Detection of Cuprous Oxide (Hydrogen Embrittlement Susceptibility) in Copper

³ 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.

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

B601 Classification for Temper Designations for Copper and Copper Alloys—Wrought and Cast

B824 Specification for General Requirements for Copper Alloy Castings

B846 Terminology for Copper and Copper Alloys

B858 Test Method for Ammonia Vapor Test for Determining Susceptibility to Stress Corrosion Cracking in Copper Alloys

B900 Practice for Packaging of Copper and Copper Alloy Mill Products for U.S. Government Agencies

B968/B968M Test Method for Flattening of Copper and Copper-Alloy Pipe and Tube

E6 Terminology Relating to Methods of Mechanical Testing

E8/E8M Test Methods for Tension Testing of Metallic Materials

E18 Test Methods for Rockwell Hardness of Metallic Materials

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

E44 Definitions for Terms Relating to Heat Treatment of Metals (Withdrawn 1993)⁴

E53 Test Method for Determination of Copper in Unalloyed Copper by Gravimetry (Withdrawn 2022)⁴

E54 Test Methods for Chemical Analysis of Special Brasses and Bronzes (Withdrawn 2002)⁴

E62 Test Methods for Chemical Analysis of Copper and Copper Alloys (Photometric Methods) (Withdrawn 2010)⁴

E75 Test Methods for Chemical Analysis of Copper-Nickel and Copper-Nickel-Zinc Alloys (Withdrawn 2010)⁴

E76 Test Methods for Chemical Analysis of Nickel-Copper Alloys (Withdrawn 2003)⁴

E112 Test Methods for Determining Average Grain Size

E118 Test Methods for Chemical Analysis of Copper-Chromium Alloys (Withdrawn 2010)⁴

E121 Test Methods for Chemical Analysis of Copper-Tellurium Alloys (Withdrawn 2010)⁴

E243 Practice for Electromagnetic (Eddy Current) Examination of Copper and Copper-Alloy Tubes

E478 Test Methods for Chemical Analysis of Copper Alloys

E527 Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)

E581 Test Methods for Chemical Analysis of Manganese-Copper Alloys

E1227 Terminology for Chemical Analysis of Metals (Withdrawn 1991)⁴

E1371 Test Method for Gravimetric Determination of Phosphorus in Phosphorus-Copper Alloys or Phosphorus-Copper-Silver Alloys (Withdrawn 2006)⁴

2.2 ISO Document:⁵

ISO 4744 Copper and copper alloys -- Determination of chromium content -- Flame atomic absorption spectrometric method

2.3 JIS Document:⁶

JIS H1068 Methods for Determination of Bismuth in Copper and Copper Alloys

3. Terminology

3.1 For definitions of terms used in this guide, refer to the Form and Style Manual and Terminology **B846**.

4. Significance and Use

4.1 The Form and Style for ASTM Standards manual provides mandatory requirements and recommended practices for the preparation and content of ASTM specifications. In order to promote consistency in the style and content of product specifications under its jurisdiction, Committee B05 recognizes the need to provide a supplementary document pertaining to the types of products and materials covered by specifications under its jurisdiction.

4.2 This guide contains a list of sections to be considered for inclusion in a specification for copper and copper alloys, recommended wording, or both, for such sections. An electronic template including committee adopted language is included in the Appendix.⁷

4.3 Persons drafting new product specifications, or modifying existing ones, under the jurisdiction of Committee B05, should follow this guide and the requirements of the Form and Style Manual to ensure consistency.

5. Subject Headings of Text

5.1 The following is the heading sequence for the specifications text. The headings listed are those most generally used. Other headings may be included for specialized subjects when the information is pertinent to the document under development; in which case, all instructions and guidance for that particular section shall be applied, and these headings should appear in the most appropriate place and sequence depending on their relationship to other sections.

5.2 *Superscripts*—The headings identified as mandatory are required by the Society. The headings identified with an asterisk (*) are a guide for Committee B05 documents, where applicable, either by inclusion or by reference to a general requirements specification.

5.3 Not all of the headings may be required for a particular standard specification. For example, when the specification does not contain reference to any other standard within the text, it is not required to include a section on Referenced Documents. Or, in the case where no physical property requirements are given, the physical property section is not required.

Title ^{ASTM}	Sampling ^{B05}
Designation ^{ASTM}	Number of Tests and Retests ^{B05}
Scope ^{ASTM}	Specimen Preparation ^{B05}
Referenced Documents ^{B05}	Test Methods ^{B05*,B}
General Requirements ^{B05,A}	Significance of Numerical Limits ^{B05}
Terminology ^{B05}	Inspection ^{B05}

⁴The last approved version of this historical standard is referenced on www.astm.org.

⁵ Available from International Organization for Standardization (ISO), ISO Central Secretariat, BIBC II, Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland, <http://www.iso.org>.

⁶ Available from Japanese Standards Association (JSA), Mita MT Bldg., 3-13-12 Mita, Miyoto-Ku, Tokyo 108-0073, Japan, <http://www.jsa.or.jp>.

⁷ For an electronic WORD version of the template, see B05 Main Page on the ASTM website, <http://www.astm.org/COMMITTEE/B05.htm>.