

Designation: B 455 - 01

Standard Specification for Copper-Zinc-Lead Alloy (Leaded-Brass) Extruded Shapes¹

This standard is issued under the fixed designation B 455; 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 specification establishes the requirements for extruded leaded-brass angles, channels, and other architectural shapes of solid cross section produced in Copper Alloy UNS Nos. C38000 and C38500.
- 1.1.1 Pipe, tube, or other hollow section products are not included in this specification.
- 1.2 *Units*—The values stated in inch-pound units are the standard. The values given in parentheses are mathematical conversions to SI units, which are provided for information only and are not considered standard.

2. Referenced Documents

- 2.1 ASTM Standards:
- B 249/249M Specification for General Requirements for Wrought Copper and Copper Alloy Rod, Bar, Shapes, and Forgings²
- B 601 Classification for Temper Designations for Copper and Copper Alloys—Wrought and Cast²
- B 846 Terminology for Copper and Copper Alloys²
- E 8 Test Methods for Tension Testing of Metallic Materials³
- E 54 Test Methods for Chemical Analysis of Special Brasses and Bronzes⁴
- E 255 Practice for Sampling Copper and Copper Alloys for the Determination of Chemical Composition⁴
- E 478 Test Methods for Chemical Analysis for Copper Alloys⁵

3. General Requirements

- 3.1 The following sections of Specification B 249/249M constitute a part of this specification:
 - 3.1.1 Terminology,

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.

- ² Annual Book of ASTM Standards, Vol 02.01.
- ³ Annual Book of ASTM Standards, Vol 03.01.
- ⁴ Annual Book of ASTM Standards, Vol 03.05.
- ⁵ Annual Book of ASTM Standards, Vol 03.06.

- 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 Report, and
- 3.1.13 Packaging and Package Marking.
- 3.2 In addition, when a section with a title identical to that referenced in 3.1 appears in this specification, it contains additional information which supplements that appearing in Specification B 249/249M. In case of conflict this specification shall prevail.

4. Terminology

4.1 For definitions of terms related to copper and copper alloys, refer to Terminology B 846.

5. Ordering Information

- 5.1 When placing orders for products under this specification include the following information:
- 5.1.1 ASTM designation and year of issue (for example, B 455-01),
- 5.1.2 Copper alloy UNS No. designation (for example, C38000),
 - 5.1.3 Temper (Section 7),
 - 5.1.4 Form, dimensions, and tolerances (Section 9), and
- 5.1.5 Quantity; total weight or number of pieces for each form, temper, size, and copper alloy.
- 5.2 The following options are available in this specification and shall be included in the contract or purchase order when required:
 - 5.2.1 Intended end use or application,
- 5.2.2 Heat identification or traceability details (Specification B 249/249M),
 - 5.2.3 Certification (Specification B 249/249M), and
 - 5.2.4 Mill test report (Specification B 249/249M).

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