



Designation: B 465 – 00

Standard Specification for Copper-Iron Alloy Plate, Sheet, Strip, and Rolled Bar¹

This standard is issued under the fixed designation B 465; 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 covers Copper Alloy UNS Nos. C19200, C19400, C19500, and C19700² plate, sheet, strip, and rolled bar.

1.2 The values stated in inch-pound units are to be regarded as the standard.

2. Referenced Documents

2.1 ASTM Standards:

B 193 Test Method for Resistivity of Electrical Conductor Materials²

B 248 Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar³

B 601 Practice for Temper Designations for Copper and Copper Alloys—Wrought and Cast³

B 846 Terminology for Copper and Copper Alloys³

E 8 Test Methods for Tension Testing of Metallic Materials⁴

E 54 Test Methods for Chemical Analysis of Special Brasses and Bronzes⁵

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

E 75 Test Methods for Chemical Analysis of Copper-Nickel and Copper-Nickel-Zinc Alloys⁵

E 76 Test Methods for Chemical Analysis of Nickel-Copper Alloys⁵

E 112 Test Methods for Determining Average Grain Size⁴

E 478 Test Methods for Chemical Analysis of Copper Alloys⁶

E 527 Practice for Numbering Metals and Alloys (UNS)⁴

3. Terminology

3.1 *Definitions*—For definitions of terms related to copper and copper alloys, refer to Terminology B 846.

¹ This specification is under the jurisdiction of ASTM Committee B-5 on Copper and Copper Alloys and is the direct responsibility of Subcommittee B05.1 on Plate, Sheet, and Strip.

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² *Annual Book of ASTM Standards*, Vol 02.03.

³ *Annual Book of ASTM Standards*, Vol 02.01.

⁴ *Annual Book of ASTM Standards*, Vol 03.01.

⁵ *Annual Book of ASTM Standards*, Vol 03.05.

⁶ *Annual Book of ASTM Standards*, Vol 03.06.

4. General Requirements

4.1 The following sections of Specification B 248 constitutes a part of this specification:

4.1.1 Terminology,

4.1.2 Materials and Manufacture,

4.1.3 Workmanship, Finish, and Appearance,

4.1.4 Sampling,

4.1.5 Number of Tests and Retests,

4.1.6 Specimen Preparation,

4.1.7 Test Methods (except chemical analysis),

4.1.8 Significance of Numerical Limits,

4.1.9 Inspection,

4.1.10 Rejection and Rehearing,

4.1.11 Certification,

4.1.12 Test Reports (Mill),

4.1.13 Packaging and Package Marking, and

4.1.14 Supplementary Requirements.

4.2 In addition, when a section with a title identical to that referenced in 4.1 appears in this specification, it contains additional requirements which supplement those appearing in Specification B 248.

5. Ordering Information

5.1 Contracts or purchase orders for product under this specification should include the following information:

5.1.1 ASTM designation and year of issue (for example B 465–XX),

5.1.2 Copper Alloy UNS No. designation (for example, C19200),

5.1.3 Temper (Section 8),

5.1.4 *Dimensions*—Thickness, width, length etc. (Section 11),

5.1.5 *Form*—Plate, sheet, strip, or rolled bar,

5.1.6 *How Furnished*—Coils (rolls), specific lengths or stock lengths, with or without ends,

5.1.7 *Quantity*—total weight each form, temper, and size, and

5.1.8 When material is purchased for agencies of the U.S. Government (Section 11).

5.2 The following options are available under this specification and should be specified in the contract or purchase order when required:

5.2.1 *Type of Edge*—Slit, sheared, sawed, square corners,

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