



Designation: B 19 – 95

AMERICAN SOCIETY FOR TESTING AND MATERIALS
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Standard Specification for Cartridge Brass Sheet, Strip, Plate, Bar, and Disks (Blanks)¹

This standard is issued under the fixed designation B 19; 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. Scope

1.1 This specification establishes the requirements for UNS No. C26000² sheet, strip, plate, bar, and disks for the manufacturer of ammunition of component parts thereof.

1.2 Values given in inch-pound units are the standard. Values given in parenthesis are for information only.

2. Referenced Documents

2.1 ASTM Standards:

B 154 Test Method for Mercurous Nitrate Test for Copper and Copper Alloys³

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

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

E 3 Methods of Preparation of Metallographic Specimens⁴

E 8 Test Methods for Tension Testing of Metallic Materials⁴

E 112 Test Methods for Determining Average Grain Size⁴

E 255 Practice for Sampling Copper and Copper Alloys for Determination of Chemical Composition⁵

E 478 Test Methods for Chemical Analysis of Copper Alloys⁵

E 527 Practice for Numbering Metals and Alloys (UNS)⁶

2.2 Federal Standards:⁷

Fed. Std. No. 123 Marking for Shipment (Civil Agencies)

Fed. Std. No. 185 Identification Marking of Copper and Copper-Base Alloy Mill Products

2.3 Military Standards:⁷

MIL-STD-105 Sampling Procedures and Tables for Inspection by Attributes

MIL-STD-129 Marking for Shipment and Storage

MIL-C-3993 Packaging of Copper and Copper-Base Alloy Mill Products

3. Ordering Information

3.1 Contracts or purchase orders for product under this specification should contain the following information:

3.1.1 ASTM designation and year of issue (for example, B19-XX),

3.1.2 Product form: sheet, strip, plate, bar, or disks (blanks),

3.1.3 Temper (Section 6),

3.1.4 Dimension: thickness, width, length,

3.1.5 How furnished: flat lengths, coils, or blanks,

3.1.6 Quantity: total weight each temper, form, and size, and

3.1.7 When severe drawing or deep cupping is required.

3.2 The following options are available and should be specified in the contract or purchase order when required:

3.2.1 Heat identification or traceability details,

3.2.2 Caliber or diameter of Type IV cups or disks (Section 10),

3.2.3 Mercurous Nitrate Test (Section 9),

3.2.4 Product Marking (Section 18),

3.2.5 On site inspection (Section 12),

3.2.6 Certification (Section 3),

3.2.7 Test Report (Mill) (Section 3), and

3.2.8 Product Marking (Section 18).

4. Material and Manufacture

4.1 Material:

4.1.1 The material of manufacture shall be a cast bar of copper alloy UNS C26000 of such purity, uniformity, and soundness as to be suitable for processing into the products prescribed herein.

4.2 Manufacturing:

4.2.1 The product shall be manufactured by such hot working, cold working, and annealing processes as to produce a uniform wrought structure in the specified temper for the finished product.

4.2.2 The products shall be furnished with slit edges unless otherwise specified.

4.3 In the event heat identification or traceability is required,

¹ This specification is under the jurisdiction of ASTM Committee B-5 on Copper and Copper Alloys and is the direct responsibility of Subcommittee B05.01 on Plate, Sheet and Strip.

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² The UNS system for copper and copper alloys (see Practice E 527) is a simple expansion of the former standard designation system accomplished by the addition of a prefix “C” and a suffix “00”. The suffix can be used to accommodate composition variations of the base alloy.

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 01.01.

⁷ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.