



Designation: B 892 – 01^{ε1}

Standard Specification for Zinc-Copper-Aluminum Alloy in Ingot Form for Die Castings¹

This standard is issued under the fixed designation B 892; 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.

^{ε1} NOTE—Paragraph 11.3 was corrected editorially and a Summary of Changes section was added in July 2001.

1. Scope*

1.1 This specification covers a commercial zinc-copper-aluminum alloy in ingot form (UNS Z46540*) for remelting for the manufacture of die castings.

1.2 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to become familiar with all hazards including those identified in the appropriate Material Data Sheet for this product/material as provided by the manufacturer, to establish appropriate safety and health practices, and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 The following documents of the issue in effect on date of order acceptance form a part of this specification to the extent referenced herein:

2.2 *ASTM Standards:*

[B 899 Terminology Relating to Nonferrous Metals and Alloys](#)²

[B 908 Practice for the Use of Color Codes for Zinc Casting Alloy Ingot](#)²

[E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications](#)³

[E 47 Test Methods for Chemical Analysis of Zinc Die Casting Alloys](#)⁴

[E 88 Practice for Sampling Nonferrous Metals and Alloys in Cast Form for Determination of Chemical Composition](#)⁵

[E 527 Practice for Numbering Metals and Alloys](#)⁶

[E 536 Test Method for Chemical Analysis of Zinc and Zinc Alloys](#)⁷

[E 634 Practice for Sampling of Zinc and Zinc Alloys for Optical Emission Spectrometric Analysis](#)⁷

3. Terminology

3.1 Terms shall be defined in accordance with Terminology B 899B 899.

4. Ordering Information

4.1 Orders for ingot under this specification shall include the following information:

4.1.1 Quantity in pounds,

4.1.2 Chemical composition,

4.1.3 Size, if not manufacturer's standard,

4.1.4 Source inspection (Section 9), and

4.1.5 Marking (Section 11).

5. Materials and Manufacture

5.1 The alloys may be made by any approved process.

5.2 The material covered by this specification shall be of uniform quality and shall be free of harmful contamination.

6. Chemical Composition

6.1 The ingots shall conform to the requirements as to chemical composition prescribed in Table 1. Conformance shall be determined by the manufacturer by analyzing samples taken at the time the ingots are poured or samples taken from the ingots. Unless otherwise agreed in the contract or purchase order, sampling procedure will be the manufacturer's choice.

7. Sampling for Determination of Chemical Composition

7.1 In the event of a dispute, if the ingots are shipped in carload lots of the same alloy, not less than five ingots shall be

¹ This specification is under the jurisdiction of ASTM Committee B02 on Nonferrous Metals and Alloys and is the direct responsibility of Subcommittee B02.04 on Zinc and Cadmium.

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*See Table 1, footnote A

² *Annual Book of ASTM Standards*, Vol 02.04.

³ *Annual Book of ASTM Standards*, Vol 14.02.

⁴ Discontinued; see *1997 Annual Book of ASTM Standards*, Vol 03.05.

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

⁶ *Annual Book of ASTM Standards*, Vol 01.01.

⁷ *Annual Book of ASTM Standards*, Vol 03.06.

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