



Designation: B 952 – 07

Standard Specification for Zinc Alloys in Ingot Form for Spin Casting¹

This standard is issued under the fixed designation B 952; 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 zinc alloys in ingot form for remelting for the manufacture of Spin Castings as specified and designated, as shown in **Table 1**. Four alloy compositions are specified, designated as follows:

Common	UNS
Spin Casting Alloy SC-A	...
Spin Casting Alloy SC-B	...
Spin Casting Alloy SC-C	...
ZA-73	...

1.2 Zinc alloys #2, #3, #5, and ZA-8 specified in Specification **B 240** are also used in the spin casting process.

1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.4 *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 Safety Data Sheet (MSDS) 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:*²

B 240 Specification for Zinc and Zinc-Aluminum (ZA) Alloys in Ingot Form for Foundry and Die Castings

B 899 Terminology Relating to Non-ferrous Metals and Alloys

B 908 Practice for the Use of Color Codes for Zinc Casting Alloy Ingot

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

E 47 Test Methods for Chemical Analysis of Zinc Die-Casting Alloys³

E 88 Practice for Sampling Nonferrous Metals and Alloys in Cast Form for Determination of Chemical Composition

E 536 Test Methods for Chemical Analysis of Zinc and Zinc Alloys

E 634 Practice for Sampling of Zinc and Zinc Alloys for Optical Emission Spectrometric Analysis

3. Terminology

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

3.2 *Definitions of Terms Specific to This Standard:*

3.3 *spin casting, n*—a casting process in which molten metal is poured into a rubber, polymer, graphite or metal mold and spun centrifugally until solidified, also a product produced by such a process.

4. Ordering Information

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

4.1.1 Quantity in pounds,

4.1.2 Alloy (**Table 1**),

4.1.3 Size, if not the manufacturer's standard,

4.1.4 Specification number and date,

4.1.5 Source inspection (Section 7), and

4.1.6 Marking (Section 9).

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 from dross or other harmful contamination.

6. Chemical Requirements

6.1 *Limits*—The alloy shall conform to the requirements as to chemical composition prescribed in **Table 1**. Conformance shall be determined by the producer by analyzing samples taken at the time the ingots are made. If the producer has determined the chemical composition of the metal during the

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.

Current edition approved June 1, 2007. Published July 2007.

² 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.

³ Withdrawn.