



ADVANCING STANDARDS
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ASTM International Technical Committee B02 on Nonferrous Metals and Alloys

SCOPE

The development and maintenance of standards on compositions, properties, dimensions, test methods, classifications, terminology and nomenclature of nonferrous metals and alloys, and of solder and solder fluxes, and materials used in the manufacture of electrical heating devices, electrical resistance devices, electrical contacts and conductors, and thermo sensitive elements in thermostats.

Excluded are copper and copper alloys, light metals and alloys, reactive and refractory metals and alloys, metal powders, electronic grade materials and wires, and certain accessories for use as electrical conductors.

EXISTING STANDARDS

<https://www.astm.org/COMMIT/SUBCOMMIT/B02.htm>

TECHNICAL SUBCOMMITTEES

B02.02 Refined Lead, Tin, Antimony, and Their Alloys

Scope: To develop and maintain standards on refined lead, tin, antimony and their alloys from both primary and secondary sources, in refinery shapes and other forms. Standards shall include but are not limited to specifications, test methods, classifications and terminologies.

B02.04 Zinc and Cadmium

Scope: To develop and maintain standards on zinc and cadmium and their alloys and related products.

B02.05 Precious Metals and Electrical Contact Materials and Test Methods

Scope: To develop and maintain standards for refined gold, silver, the platinum group metals and their alloys, specifications for electrical contact materials, and test methods for electrical contacts and connectors, including sliding contacts, make-and-break contacts and static connectors and connections; the development of testing apparatus, methods

Zinc Die Casting Machine.
Image courtesy of Frech
U.S.A. www.frechusa.com.



QUICK FACTS

Established 1902

Number of Members 150+

Number of Standards 200+

Global Participation

13 Countries represented

The standards are available in
Volume 02.04 in the *Annual Book of ASTM Standards*

Meetings B02 meets twice each year,
in May and November

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Stacks of Zinc Alloy Jumbos per ASTM B852, Standard Specification for Continuous Galvanizing Grade (CGG) Zinc Alloys for Hot-Dip Galvanizing of Sheet Steel, and B897, Standard Specification for Configuration of Zinc and Zinc Alloy Jumbo, Block, Half Block, and Slab Ingot. Image courtesy of Teck Metals Ltd. www.teck.com

B02.07 Refined Nickel and Cobalt and Their Alloys

Scope: B02.07 maintains one standard on refined nickel and numerous specifications for the mill product forms of a variety of nickel, nickel alloy and cobalt alloy materials. In addition, many of the ferrous alloys with high nickel contents continue to be covered by specifications under the jurisdiction of this subcommittee. These materials are used in a wide range of applications since, collectively, they offer aqueous corrosion resistance, elevated temperature resistance, high strength at both room and elevated temperatures, as well as fabricability. Applications for these materials include the chemical, petrochemical, power generation, industrial heating, transportation and defense industries, as well as household consumer products

B02.10 Thermostat Metals and Electrical Resistance Heating Materials

Scope: B02.10 The formulation and standardization of specifications and methods for testing materials used in the construction of electrical heating devices and electrical resistance devices, including methods of determining basic temperature - resistance properties of materials, and research and development and accumulation of engineering information for thermostat metals and resistance alloys, as well as the standardization of research and standardization of nomenclature to accomplish the foregoing purposes.

ADMINISTRATIVE SUBCOMMITTEES

- B02.90 Executive
- B02.91 Terminology
- B02.93 Awards
- B02.94 Long Range Planning



Cast Zinc Alloy handle and spout per ASTM B86, Standard Specification for Zinc and Zinc-Aluminum (ZA) Alloy Foundry and Die Castings. Image courtesy of DELTA FAUCET www.deltafaucet.com.

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