



Designation: B 440 – 9900

An American National Standard

Standard Specification for Cadmium¹

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1. Scope*

1.1 This specification covers refined cadmium metal in slab, ball or stick form.

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

1.3 *Toxicity*—Warning:—Soluble and respirable forms of cadmium ~~is~~ may be harmful to human health and the environment in certain forms and concentrations. Therefore, ingestion and inhalation of cadmium should be controlled under the appropriate regulations of the U.S. Occupational Safety and Health Administration (OSHA). Cadmium-containing alloys and coatings should not be used on articles that will contact food or beverages, or for dental and other equipment that ~~may be~~ is normally inserted in the mouth. Also, the coating should not be used on articles that will be heated to high temperature, because cadmium will form toxic fumes. Similarly, if coated articles using cadmium-containing alloys or coatings are welded, soldered, brazed, ground, “flame-cut,” or otherwise heated during fabrication, adequate ventilation ~~should~~ must be provided to exhaust toxic fumes. ~~maintain~~ occupational cadmium exposure below the OSHA Permissible Exposure Level (PEL).

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 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 ASTM Standards:

B 899 Terminology Relating to Non-ferrous Metals and Alloys²

¹ This specification is under the jurisdiction of ASTM Committee B-2 B02 on Nonferrous Metals and Alloys and is the direct responsibility of Subcommittee B02.04 on Zinc and Cadmium.

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