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Designation: E785 – 81 (Reapproved 2006)

# Standard Specification for Crucibles, Ignition, Laboratory, Metal<sup>1</sup>

This standard is issued under the fixed designation E785; 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 ( $\varepsilon$ ) 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 covers two types of metal ignition crucibles, nickel or platinum, complete with covers, for laboratory use.

## 2. Referenced Documents

2.1 ASTM Standards:<sup>2</sup>

B162 Specification for Nickel Plate, Sheet, and Strip

2.2 Federal Standards:<sup>3</sup>

Fed. Std. No. 123 Marking for Shipment (Civil Agencies) 2.3 *Military Standards*.<sup>3</sup>

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

MIL-STD-129 Marking for Shipment and Storage MIL-STD-1188 Commercial Packaging of Supplies and Equipment

## 3. Classification

3.1 *Types and Capacities*—The crucibles shall be furnished in one or more of the following types or capacities as specified (see S2.1).

3.1.1 Type I—Nickel.

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https://standards.iteCapacity:0\_100 mLrds/sist/513b249 250 mL 3.1.2 *Type II*—Platinum.

Capacity: 20 mL

#### 4. Materials

4.1 *Type I*—Crucibles and covers shall be made from 99.4 % nickel, spun and hardened in conformance with Specification **B162**.

4.2 *Type II*—Crucibles and covers shall be made from 99.9 % platinum plus iridium, with the iridium content of not more than 0.4 %.

## 5. Physical Requirements

5.1 *Crucibles* shall have a standard shape with a flat base to give a firm and stable resting surface. The side wall shall form a sloping and convex surface extending up to the brim. Crucibles shall be of one-piece construction.

5.2 *Covers* shall be flat, sunken in the center, and shall have an extension to serve as a handle. The sunken area in the center shall fit inside the crucible.

## 6. Dimensions, Mass, and Permissible Variations

6.1 *Type I* crucibles and covers shall conform to the re-27 quirements of Table 1.767(2381/astm-e785-812006)

6.2 Type II Crucibles and Covers:

6.2.1 Type II crucibles shall conform to the requirements of Table 2.

6.2.2 Type II covers shall conform to the requirements of Table 3.

#### 7. Workmanship

7.1 Crucibles and covers shall be free of defects (scratches, dents, discolorations) or contamination (grease, oil, foreign matter) that detract from their appearance or that impair their serviceability.

## 8. Keywords

8.1 crucibles; ignition; nickel; platinum

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Current edition approved Nov. 1, 2006. Published December 2006. Originally approved in 1981. Last previous edition approved in 2001 as E785 – 81 (2001). DOI: 10.1520/E0785-81R06.

<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> Available from Standardization Documents Order Desk, DODSSP, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098, http://www.dodssp.daps.mil.