



Designation: E 1189 – 00

## Standard Specification for Micro-Burets (Koch Style)<sup>1</sup>

This standard is issued under the fixed designation E 1189; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This specification covers two styles of glass micro-burets of the “Koch” type for general laboratory use.

### 2. Referenced Documents

#### 2.1 ASTM Standards:

- E 438 Specification for Glasses in Laboratory Apparatus<sup>2</sup>
- E 542 Practice for Calibration of Volumetric Apparatus<sup>2</sup>
- E 675 Specification for Interchangeable Taper-Ground Stopcocks and Stoppers<sup>2</sup>
- E 676 Specification for Interchangeable Taper-Ground Joints<sup>2</sup>
- E 677 Specification for Interchangeable Spherical Ground Joints<sup>2</sup>
- E 694 Specification for Laboratory Glass Volumetric Apparatus<sup>2</sup>
- E 911 Specification for Glass Stopcocks with Polytetrafluoroethylene (PTFE) Plugs<sup>2</sup>
- E 920 Specification for Commercially Packaged Laboratory Apparatus<sup>3</sup>
- E 921 Specification for Export Packaged Laboratory Apparatus<sup>3</sup>
- E 1133 Practice for Performance Testing of Packaged Laboratory Apparatus for United States Government Procurements<sup>3</sup>
- E 1157 Specification for Sampling and Testing of Reusable Laboratory Glassware<sup>3</sup>

### 3. General Requirements

3.1 *Material*—Burets shall be made from Type I, Class A or B glass as specified in Specification E 438.

<sup>1</sup> This specification is under the jurisdiction of Committee E41 on Laboratory Apparatus and is the direct responsibility of Subcommittee E 41.01 on Glass Apparatus.

Current edition approved Nov. 10, 2000. Published January 2001.

<sup>2</sup> *Annual Book of ASTM Standards*, Vol 14.02.

<sup>3</sup> *Annual Book of ASTM Standards*, Vol 14.04.

3.2 *Stopcocks*—Both burets shall have permanently attached stopcocks with either glass plugs conforming to Specification E 675 or PTFE plugs conforming to Specification E 911.

3.3 *Joints and Stoppers*—All joints and stoppers shall comply with the requirements of Specifications E 675, E 676 or E 677.

3.4 *Graduation*—The graduated section shall be in compliance with Pattern I of Specification E 694.

### 4. Design

#### 4.1 Style I:

4.1.1 Style I shall be in compliance with Table 1 and Fig. 1.

4.1.2 This style shall be equipped with a detachable tip with either a 7/25 joint or a SJ 12/5 joint.

4.1.3 Reservoir and graduated section shall be secured to each other to cushion against breakage during transit and in use. Typical arrangements are a cork spacer and tape or a glass bridge.

#### 4.2 Style II:

4.2.1 Style II shall be in compliance with Table 2 and Fig. 2.

4.2.2 This style shall be equipped with a detachable tip of noble metals (platinum or platinum alloys) sealed to glass in a form commonly designated as Shohl-Type.

4.2.3 Reservoir section shall be separate from graduated section with connection made by a SJ 12/5 spherical ground joint complying with Specification E 677.

### 5. Sampling and Testing

5.1 See Specification E 1157.

### 6. Packaging

6.1 Select one from ASTM Standards: Specifications E 920, E 921, and Practice E 1133.

### 7. Keywords

7.1 buret; glass; Koch; laboratory; micro