



Designation: E 1189 – 87 (Reapproved 1996)

AMERICAN SOCIETY FOR TESTING AND MATERIALS
100 Barr Harbor Dr., West Conshohocken, PA 19428
Reprinted from the Annual Book of ASTM Standards. Copyright ASTM

Standard Specification for Micro-Burets (Koch Style)¹

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 (ϵ) 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 Apparatus²
- E 542 Practice for Calibration of Volumetric Apparatus²
- E 675 Specification for Interchangeable Taper-Ground Stopcocks and Stoppers²
- E 676 Specification for Interchangeable Taper-Ground Joints²
- E 677 Specification for Interchangeable Spherical Ground Joints²
- E 694 Specification for Laboratory Glass Volumetric Apparatus²
- E 911 Specification for Glass Stopcocks with Polytetrafluoroethylene (PTFE) Plugs²

3. General Requirements

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

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.

¹ This specification is under the jurisdiction of Committee E-41 on Laboratory Apparatus and is the direct responsibility of Subcommittee E 41.01 on Glass Apparatus.

Current edition approved Sept. 25, 1987. Published November 1987.

² *Annual Book of ASTM Standards*, Vol 14.02.