



Standard Specification for Laboratory Glass Test Tubes¹

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1. Scope

1.1 This specification covers glass test tubes suitable for laboratory use.

2. Referenced Documents

2.1 ASTM Standards:²

- C 162 Terminology of Glass and Glass Products
 - D 700 Specification for Phenolic Molding Compounds³
 - D 2146 Specification for Propylene Plastic Molding and Extrusion Materials³
 - E 438 Specification for Glasses in Laboratory Apparatus
 - E 542 Practice for Calibration of Laboratory Volumetric Apparatus
 - E 671 Specification for Maximum Permissible Thermal Residual Stress in Annealed Glass Laboratory Apparatus
 - E 675 Specification for Interchangeable Taper-Ground Stopcocks and Stoppers
 - E 920 Specification for Commercially Packaged Laboratory Apparatus
 - E 921 Specification for Export Packaged Laboratory Apparatus
 - E 1133 Practice for Performance Testing of Packaged Laboratory Apparatus for United States Government Procurements
 - E 1157 Specification for Sampling and Testing of Reusable Laboratory Glassware
- #### 2.2 Glass Packaging Institute Standard:⁴
- GPI Tall Continuous Thread Concealed Bead Finish, Glass Finish Drawing Nos. 410, 415, and 430

3. Classification

3.1 Test tubes shall be of the following sizes:

¹ This specification is under the jurisdiction of ASTM Committee E41 on Laboratory Apparatus and is the direct responsibility of Subcommittee E41.01 on Apparatus.

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² 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.

³ Withdrawn.

⁴ Available from Glass Packaging Institute, 6845 Elm Street, Suite 209, McLean, VA 22101.

Size	Nominal OD $\times$ Length, mm
1	6 $\times$ 50
2	10 $\times$ 70
3	10 $\times$ 75
4	12 $\times$ 75
5	12 $\times$ 100
6	13 $\times$ 100
7	14 $\times$ 100
8	14 $\times$ 150
9	15 $\times$ 125
10	16 $\times$ 100
11	16 $\times$ 125
12	16 $\times$ 150
13	18 $\times$ 150
14	19 $\times$ 150
15	20 $\times$ 125
16	20 $\times$ 150
17	21 $\times$ 150
18	22 $\times$ 175
19	25 $\times$ 150
20	25 $\times$ 200
21	25 $\times$ 250
22	38 $\times$ 200

3.1.1 Type I—General-Purpose, Beaded Rim:

Size	Nominal OD $\times$ Length, mm
3	10 $\times$ 75
4	12 $\times$ 75
6	13 $\times$ 100
9	15 $\times$ 125
11	16 $\times$ 125
12	16 $\times$ 150
13	18 $\times$ 150
14	19 $\times$ 150
16	20 $\times$ 150
19	25 $\times$ 150
20	25 $\times$ 200

3.1.2 Type II—Beaded Rim, Graduated:

Size	Nominal OD $\times$ Length, mm
5	12 $\times$ 100
8	14 $\times$ 150
11	16 $\times$ 125
12	16 $\times$ 150
16	20 $\times$ 150
17	21 $\times$ 150
20	25 $\times$ 200

3.1.3 Type III—Standard Taper, Glass-Stoppered:

Size	Nominal OD $\times$ Length, mm
6	13 $\times$ 100
12	16 $\times$ 150
14	19 $\times$ 150
18	22 $\times$ 175
20	25 $\times$ 200