



Designation: E1378 – 99 (Reapproved 2022)

Standard Specification for Laboratory Glass Multiple Neck Distilling/Boiling Flasks¹

This standard is issued under the fixed designation E1378; 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 provides standard dimensional requirements for multiple neck distilling/boiling flasks.

1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.3 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

- E438 Specification for Glasses in Laboratory Apparatus
- E671 Specification for Maximum Permissible Thermal Residual Stress in Annealed Glass Laboratory Apparatus
- E676 Specification for Interchangeable Taper-Ground Joints
- E920 Specification for Commercially Packaged Laboratory Apparatus
- E921 Specification for Export Packaged Laboratory Apparatus
- E1133 Practice for Performance Testing of Packaged Laboratory Apparatus for United States Government Procurements
- E1157 Specification for Sampling and Testing of Reusable Laboratory Glassware

3. Classification

3.1 Flasks shall be of the following types and sizes.

3.1.1 *Type I*—Standard taper (S) necks, equal height:

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

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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.

500 mL
1 000 mL
2 000 mL
3 000 mL
5 000 mL

3.1.2 *Type II*—Three tooled necks, unequal height:

250 mL
500 mL
1 000 mL
2 000 mL
3 000 mL
5 000 mL

3.1.3 *Type III*—Three standard taper (S) necks, unequal height:

250 mL
300 mL
500 mL
1 000 mL
2 000 mL
3 000 mL
5 000 mL
12 000 mL

3.1.4 *Type IV*—Three standard taper (S) necks, equal height:

250 mL
500 mL
1 000 mL
2 000 mL
3 000 mL
5 000 mL

3.1.5 *Type V*—Three tooled necks, angled:

200 mL
500 mL
1 000 mL

3.1.6 *Type VI*—Three standard taper (S) necks, angled:

25 mL
50 mL
100 mL
200 mL
250 mL
300 mL
500 mL
1 000 mL

3.1.7 *Type VII*—Two standard taper (S) necks, unequal height:

500 mL
1 000 mL
2 000 mL
5 000 mL