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Laboratory glassware — Bottles — **Part 1:** **Screw-neck bottles**

Verrerie de laboratoire — Flacons —
Partie 1: Flacons à col à vis



Reference number
ISO 4796-1:2000(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 4796 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 4796-1 was prepared by Technical Committee ISO/TC 48, *Laboratory glassware and related apparatus*, Subcommittee SC 2, *General laboratory glassware (other than measuring apparatus)*.

Parts 1 and 2 of ISO 4796 cancel and replace ISO 4796:1977 by incorporating the following changes:

- a) bottles with capacities of 25 ml, 15 000 ml and 20 000 ml have been added;
- b) the material has been more precisely defined;
- c) the International Standard has been divided into three parts.

ISO 4796 consists of the following parts, under the general title *Laboratory glassware — Bottles*:

- *Part 1: Screw-neck bottles*
- *Part 2: Conical neck bottles*
- *Part 3: Aspirator bottles*

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Laboratory glassware — Bottles —

Part 1:

Screw-neck bottles

1 Scope

This part of ISO 4796 specifies a series of screw-neck bottles suitable for the storage of fluid liquid and solid chemicals and reagents in general laboratory use. These bottles are also suitable for the preparation and storage of microbiological growth media.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this part of ISO 4796. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 4796 are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 3585:1998, *Borosilicate glass 3.3 — Properties*.

3 Capacities

3.1 The nominal capacities of screw-neck bottles shall be chosen from the following series:

25 ml — 50 ml — 100 ml — 250 ml and 500 ml;

1 l — 2 l — 5 l — 10 l — 15 l and 20 l.

3.2 The nominal capacity of a bottle indicates the quantity of liquid which a bottle of average wall thickness shall contain when the bottle is filled to the turn of the shoulder.

3.3 The design of the bottle shall be such that the total capacity to the base of the neck shall be approximately 15 % greater than that to the shoulder.

4 Dimensions

The dimensions and tolerances of screw-neck bottles are given in Figures 1 and 2 and in Table 1.