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**Laboratory glassware — Bottles —**  
**Part 2:**  
**Conical neck bottles**

*Verrerie de laboratoire — Flacons —*  
*Partie 2: Flacons à col conique*



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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 4796-2 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, 30 ml, 2 500 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 2:

## Conical neck bottles

### 1 Scope

This part of ISO 4796 specifies a series of bottles with a conical, wide or narrow neck with or without ground joints, suitable for the storage of liquid and solid chemicals and reagents in general laboratory use.

### 2 Normative references

The following normative documents contain 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 editions of the normative documents 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 383:1976, *Laboratory glassware — Interchangeable conical ground joints.*

ISO 719:1985, *Glass — Hydrolytic resistance of glass grains at 98 °C — Method of test and classification.*

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

ISO 4796-1:2000, *Laboratory glassware — Bottles — Part 1: Screw-neck bottles.*

### 3 Types and capacities

3.1 There are four types of conical neck bottles specified in this part of ISO 4796:

- type WS: wide-necked bottles with a conical socket;
- type WJ: wide-necked bottles with an interchangeable conical ground joint;
- type NS: narrow-necked bottles with a conical socket;
- type NJ: narrow-necked bottles with an interchangeable conical ground joint.

3.2 The nominal capacities of conical neck bottles shall be chosen from the following series:

- wide-necked bottles: 50 ml — 100 ml — 250 ml — 500 ml — 1 000 ml and 2 000 ml;
- narrow-necked bottles: 25 ml — 30 ml — 50 ml — 100 ml — 250 ml — 500 ml — 1 000 ml — 2 000 ml — 2 500 ml — 5 000 ml — 10 000 ml and 20 000 ml.