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Laboratory glassware – Bottles – Part 3: Aspirator bottles (ISO 4796-3:2000)

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Swedish Standards corresponding to documents referred to in this Standard are listed in "Catalogue of Swedish Standards", issued by SIS. The Catalogue lists, with reference number and year of Swedish approval, International and European Standards approved as Swedish Standards as well as other Swedish Standards.

Laboratorieglass – Flaskor – Del 3: Flaskor med utlopp vid botten (ISO 4796-3:2000)

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ICS 71.040.20

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EUROPEAN STANDARD
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EN ISO 4796-3

April 2000

ICS 71.040.20

English version

**Laboratory glassware - Bottles - Part 3: Aspirator bottles
(ISO 4796-3:2000)**

Verrerie de laboratoire - Flacons - Partie 3: Flacons à
tubulure basse (ISO 4796-3:2000)

Laborgeräte aus Glas - Flaschen - Teil 3: Tubusflaschen
(ISO 4796-3:2000)

This European Standard was approved by CEN on 1 April 2000.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

The text of the International Standard ISO 4796-3:2000 has been prepared by Technical Committee ISO/TC 48 "Laboratory glassware and related apparatus" in collaboration with Technical Committee CEN/TC 332 "Laboratory equipment", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2000, and conflicting national standards shall be withdrawn at the latest by October 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

NOTE FROM CEN/CS: The foreword is susceptible to be amended on reception of the German language version. The confirmed or amended foreword, and when appropriate, the normative annex ZA for the references to international publications with their relevant European publications will be circulated with the German version.

Endorsement notice

The text of the International Standard ISO 4796-3:2000 was approved by CEN as a European Standard without any modification.

Laboratory glassware — Bottles —

Part 3: Aspirator bottles

1 Scope

This part of ISO 4796 specifies a series of aspirator bottles with a screw neck or with a conical neck suitable for the delivery of liquid 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 4796-1:2000, *Laboratory glassware — Bottles — Part 1: Screw-neck bottles*.

ISO 4796-2:2000, *Laboratory glassware — Bottles — Part 2: Conical neck bottles*.

3 Types and capacities

3.1 There are three types of aspirator bottles specified in this part of ISO 4796:

- type ASN: aspirator bottles with a screw neck;
- type ACS: aspirator bottles with a conical neck socket;
- type ACJ: aspirator bottles with an interchangeable conical ground joint.

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

0,5 l — 1 l — 2 l — 5 l — 10 l and 20 l

3.3 The nominal capacity of an aspirator 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.

3.4 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 aspirator bottles are given in Figure 1 and in Tables 1 and 2 below.

Table 1 — Dimensions of aspirator bottles with a screw neck

Nominal capacity	Total height	Height to shoulder	Outside diameter	Wall thickness
<i>l</i>	<i>h</i> ₁ mm approx.	<i>h</i> ₂ mm approx.	<i>d</i> mm approx.	<i>s</i> mm min.
1	225	153	100	2,0
2	260	170	136	2,0
5	330	208	181	2,0
10	410	265	227	2,7
20	505	330	288	3,0

Table 2 — Dimensions of aspirator bottles with a conical neck

Nominal capacity	Total height	Outside diameter	Wall thickness	Neck socket ^a	Ground joint at outlet
<i>l</i>	<i>h</i> ₁ mm approx.	<i>d</i> mm approx.	<i>s</i> mm min.		
0,5	162	86	1,3	24/29	19/26
1	198	107	1,7	29/32	19/26
2	246	133	2,0	29/32	19/26
5	318	181	2,0	45/40	29/32
10	398	227	2,7	60/46	29/32
20	492	288	3,0	60/46	29/32

^a Or ground joint in accordance with ISO 383 (see 5.2.8 for details)

5 Construction

5.1 Material

In accordance with 5.1 of ISO 4796-1:2000.

5.2 Design

5.2.1 The base of the bottle shall be constructed so as to enable the bottle to stand firmly on a flat surface without rocking or spinning.