



SLOVENSKI STANDARD SIST EN ISO 4797:2005

01-april-2005

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Laboratory glassware - Boiling flasks with conical ground joints (ISO 4797:2004)

Laborgeräte aus Glas - Erlenmeyer-, Rund- und Stehkolben mit Kegelschliff (ISO 4797:2004)

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Verrerie de laboratoire - Fioles coniques et ballons a col muni d'un assemblage conique rodé (ISO 4797:2004)

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Ta slovenski standard je istoveten z: EN ISO 4797:2004

ICS:

71.040.20	Laboratorijska posoda in aparati	Laboratory ware and related apparatus
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SIST EN ISO 4797:2005

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 4797

November 2004

ICS 71.040.20

English version

**Laboratory glassware - Boiling flasks with conical ground joints
(ISO 4797:2004)**

Verrerie de laboratoire - Fioles coniques et ballons à col
muni d'un assemblage conique rodé (ISO 4797:2004)

Laborgeräte aus Glas - Erlenmeyer-, Rund- und Stehkolben
mit Kegelschliff (ISO 4797:2004)

This European Standard was approved by CEN on 7 June 2004.

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.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 4797:2004 (E)**Foreword**

The text of ISO 4797:2004 has been prepared by Technical Committee ISO/TC 48 "Laboratory glassware and related apparatus" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 4797:2004 by 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 May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

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

Endorsement notice

The text of ISO 4797:2004 has been approved by CEN as EN ISO 4797:2004 without any modifications.

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INTERNATIONAL
STANDARD

ISO
4797

Second edition
2004-07-01

**Laboratory glassware — Boiling flasks
with conical ground joints**

*Verrerie de laboratoire — Fioles coniques et ballons à col muni d'un
assemblage conique rodé*

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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 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4797 was prepared by Technical Committee ISO/TC 48, *Laboratory glassware and related apparatus*, Subcommittee SC 6, *Laboratory and volumetric ware*.

This second edition cancels and replaces the first edition (ISO 4797:1981), which has been technically revised to incorporate the following changes:

- a) dimensions and joint sizes have been adapted to the current state of manufacturing;
- b) two series have been introduced for conical flasks;
- c) height tolerances have been added to Series 1;
- d) conical flask of 10 ml nominal volume has been added;
- e) round-bottom flasks of 10 ml, 25 ml, 5 l, 6 l and 10 l nominal volume have been added.

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Laboratory glassware — Boiling flasks with conical ground joints

1 Scope

This International Standard specifies requirements for an internationally acceptable series of boiling flasks with conical ground joints for general laboratory purposes.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 383, *Laboratory glassware — Interchangeable conical ground joints*

ISO 1773, *Laboratory glassware — Narrow-necked boiling flasks*

ISO 3585, *Borosilicate glass 3.3 — Properties*

3 Types

Three types of boiling flasks with conical ground joints are specified:

- a) conical flasks;
- b) flat-bottom flasks;
- c) round-bottom flasks.

4 Series of capacities

Two series are specified for each type of boiling flask with conical ground joints. The series differ in height and in selection of joint sizes. It is recommended that, in national standards, one of these series is chosen.

5 Material

Boiling flasks shall be made from borosilicate glass 3.3 in accordance with ISO 3585, and shall be free from visible defects which might affect performance and free from any internal stress which would impair the performance of the flask.

6 Dimensions

The external diameter of body of round-bottom flasks and flat-bottom flasks, the external diameter of body at the widest point of conical flasks and the minimum wall thickness shall comply with the dimensions specified in ISO 1773.

The nominal overall height of the boiling flasks with conical ground joints shall be as specified in Tables 1 to 3.