



SLOVENSKI STANDARD
SIST ISO 6556:2014
01-januar-2014

Laboratorijska steklovina - Presesalne bučke

Laboratory glassware - Filter flasks

Verrerie de laboratoire - Fioles à filtrer

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Ta slovenski standard je istoveten z: ISO 6556:2012

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ICS:

71.040.20	Laboratorijska posoda in aparati	Laboratory ware and related apparatus
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INTERNATIONAL STANDARD

**ISO
6556**

Second edition
2012-10-01

Laboratory glassware — Filter flasks

Verrerie de laboratoire — Fioles à filtrer

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ISO 6556:2012(E)

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 6556 was prepared by Technical Committee ISO/TC 48, *Laboratory equipment*, and by Technical Committee CEN/TC 332, *Laboratory equipment* in collaboration.

This second edition cancels and replaces the first edition (ISO 6556:1981), which has been technically revised to incorporate the following modifications.

- a) Filter flasks of cylindrical shape with capacities of 3 l to 20 l have been added.
- b) Two series of filter flasks have been introduced to meet market needs.
- c) The glass material for filter flasks has been limited to borosilicate glass 3.3.
- d) A requirement for thermal shock endurance of filter flasks has been added.
- e) The dimensions and figures have been updated to the state of manufacturing.

Laboratory glassware — Filter flasks

1 Scope

This International Standard specifies requirements to filter flasks with conical or cylindrical shape 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 718, *Laboratory glassware — Thermal shock and thermal shock endurance — Test methods*

ISO 3585, *Borosilicate glass 3.3 — Properties*

3 Series and capacities

Two series of filter flasks are specified.

Series A filter flasks have either

- a conical shape (see Figure 1) with nominal capacities of 100 ml, 250 ml, 500 ml, 1 000 ml and 2 000 ml, or
- a cylindrical shape (see Figure 2) with nominal capacities of 3 l, 5 l, 10 l, 15 l and 20 l.

Series B filter flasks have a conical shape and a different choice of vacuum connections compared to Series A filter flasks and have nominal capacities of 25 ml, 50 ml, 125 ml, 250 ml, 500 ml, 1 000 ml, 2 000 ml and 4 000 ml.

4 Material

Filter flasks shall be made of borosilicate glass 3.3 conforming with ISO 3585; the glass shall be reasonably free from residual strain and from glass defects which might impair safety, durability or appearance.

5 Construction

5.1 Pressure strength

Filter flasks shall be constructed so as to withstand a pressure differential (external-internal) of 2 bar (1 bar = 10^5 Pa), i.e. twice the pressure in normal use, when tested in accordance with the test method specified in Annex A.

For this purpose, the dimensions given for wall thickness and radius of curvature given in Tables 1 to 3 shall be observed.

5.2 Shape

Filter flasks shall be conical or cylindrical. The base of the flasks shall be so constructed that they stand vertically without rocking or spinning when placed on a level surface.

ISO 6556:2012(E)**5.3 Radius of curvature of base**

The base of the flask shall have a suitable radius of curvature in order to provide a smooth transition between the base and the side. The radius shall be not less than that given in Tables 1 to 3.

5.4 Wall thickness

The flask shall be blown so as to achieve a good distribution of glass in the mould without sudden changes in wall thickness. In order to meet the requirements of 5.1, the thinnest areas shall have a thickness not less than the minimum values specified in Tables 1 to 3.

5.5 Neck

The top of the neck shall be formed to provide suitable strength. The neck may be slightly tapered or cylindrical; alternatively, it may be manufactured with an interchangeable joint of appropriate size selected from ISO 383.

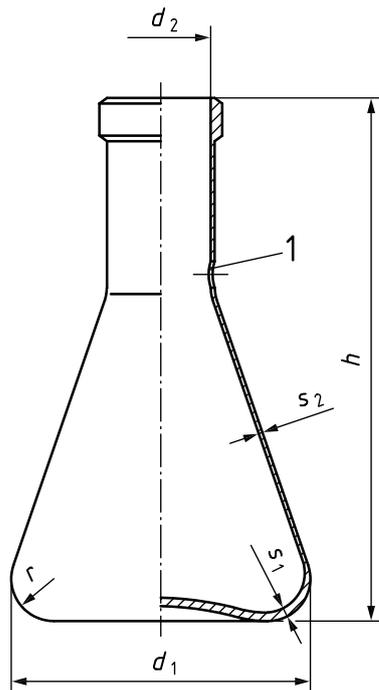
5.6 Protective coating

For protection against mechanical damage (impact or shock), filter flasks may have an external plastic coating.

6 Series A filter flasks**6.1 Vacuum connection (side-arm)**

The vacuum connection shall be placed just at, or below, the cylindrical part of the neck (see Figure 1 and Figure 2). Three types of vacuum connection are described:

- a) a tubular side-arm as shown in Figure 3 with a taper of 1:5 to 1:10;
- b) an integral side-arm with a glass round thread as shown in Figure 4;
- c) a detachable side-arm; a typical arrangement with a resilient grommet is shown in Figure 5. A detachable side-arm may also be provided with an appropriate glass round thread.



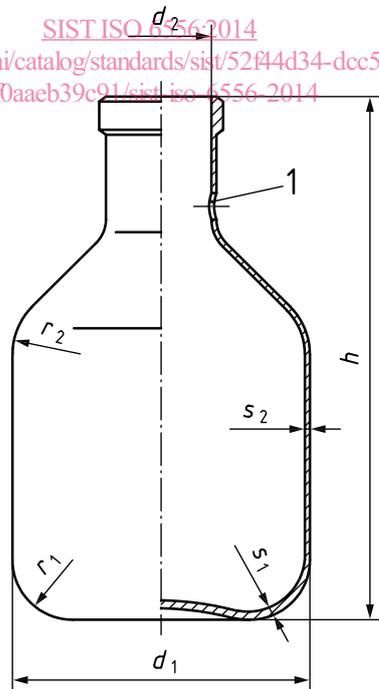
Key

- 1 vacuum connection

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Figure 1 — Conical shape
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Key

- 1 vacuum connection

Figure 2 — Cylindrical shape