

STN	Laboratórne sklo a vybavenie z plastov. Princípy navrhovania a konštrukcie odmerných nádob (ISO 384: 2015).	STN EN ISO 384 70 4134
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Laboratory glass and plastics ware - Principles of design and construction of volumetric instruments (ISO 384:2015)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/16

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English Version

Laboratory glass and plastics ware - Principles of design and construction of volumetric instruments (ISO 384:2015)

Matériel de laboratoire en verre ou en plastique -
Principes de conception et de construction
d'instruments volumétriques (ISO 384:2015)

Laborgeräte aus Glas oder Kunststoff - Grundlagen für
Gestaltung und Bau von Volumenmessgeräten (ISO
384:2015)

This European Standard was approved by CEN on 16 November 2015.

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Contents	Page
European foreword.....	3

European foreword

This document (EN ISO 384:2015) has been prepared by Technical Committee ISO/TC 48 "Laboratory equipment" 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of an identical text or by endorsement, at the latest by June 2016, and conflicting national standards shall be withdrawn at the latest by June 2016.

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Endorsement notice

The text of ISO 384:2015 has been approved by CEN as EN ISO 384:2015 without any modification.

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INTERNATIONAL STANDARD

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Second edition
2015-12-15

Laboratory glass and plastics ware — Principles of design and construction of volumetric instruments

*Matériel de laboratoire en verre ou en plastique — Principes de
conception et de construction d'instruments volumétriques*



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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Unit of volume and reference temperature	1
4.1 Unit of volume	1
4.2 Reference temperature	1
5 Volumetric accuracy	1
6 Methods of calibration and use	2
7 Construction	3
7.1 Material	3
7.2 Wall thickness	3
7.3 Shape	3
7.4 Capacity	3
7.5 Stability	3
7.6 Delivery jets	3
7.7 Stoppers	4
7.8 Stopcocks or similar devices	4
8 Linear dimensions	4
9 Graduation lines	5
10 Scales	6
10.1 Spacing of graduation lines	6
10.2 Length of graduation lines (see Figure 2)	6
10.2.1 General	6
10.2.2 Graduation pattern I	6
10.2.3 Graduation pattern II	6
10.2.4 Graduation pattern III	6
10.2.5 Special cases	7
10.3 Sequence of graduation lines (see Figure 1)	7
10.4 Position of graduation lines (see Figure 2)	8
11 Figuring of graduation lines	9
12 Marking	10
13 Visibility of graduation lines, figures and inscriptions	11
Annex A (normative) Maximum permissible error in relation to the inner diameter at the meniscus	12
Bibliography	15

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 48, *Laboratory equipment*.

This second edition cancels and replaces the first edition (ISO 384:1978), which has been technically revised to incorporate the following modifications.

- a) Volumetric instruments made from plastics have been added to the scope.
- b) Volumetric instruments of class AS have been added.
- c) The thickness of graduation lines has been modified.
- d) The basic principles for construction have been modified such that they comply with the product standards ISO 1042, ISO 648, ISO 835, ISO 385, ISO 4788 and ISO 4787.
- e) The relation between maximum permissible error and the inner diameter has been specified by an equation.
- f) [Annex A](#), explaining that relation, has been reworded.

Laboratory glass and plastics ware — Principles of design and construction of volumetric instruments

1 Scope

This International Standard sets out principles for the design of volumetric instruments manufactured from glass or from plastics in order to facilitate the most reliable and convenient use to the intended degree of accuracy.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 4787, *Laboratory glassware — Volumetric instruments — Methods for testing of capacity and for use*

ISO/IEC Guide 99, *International vocabulary of metrology — Basic and general concepts and associated terms (VIM)*

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