

SLOVENSKI STANDARD oSIST prEN ISO 8362-1:2019

01-julij-2019

Vsebniki za parenteralne farmacevtske oblike in dodatna oprema - 1. del: Viale iz cevnega stekla (ISO 8362-1:2018)

Injection containers and accessories - Part 1: Injection vials made of glass tubing (ISO 8362-1:2018)

Injektionsbehältnisse und Zubehör - Teil 1: Injektionsflaschen aus Röhrenglas (ISO 8362 -1:2018)

Récipients et accessoires pour produits injectables - Partie 1: Flacons en verre étiré (ISO 8362-1:2018)

Ta slovenski standard je istoveten z: prEN ISO 8362-1

ICS:

11.040.20 Tra

Transfuzijska, infuzijska in injekcijska oprema

Transfusion, infusion and injection equipment

oSIST prEN ISO 8362-1:2019

en

oSIST prEN ISO 8362-1:2019

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 8362-1:2019
https://standards.iteh.ai/catalog/standards/sist/daa58e94-ab61-47df-a1f8-dbe533bfe8e8/sist-en-iso-8362-1-2019

oSIST prEN ISO 8362-1:2019

INTERNATIONAL STANDARD

ISO 8362-1

Fourth edition 2018-08

Injection containers and accessories —

Part 1: **Injection vials made of glass tubing**

R'ecipients et accessoires pour produits injectables --

Partie 1: Flacons en verre étiré

(standards.iteh.ai)

SIST EN ISO 8362-1:2019
https://standards.iteh.ai/catalog/standards/sist/daa58e94-ab61-47df-a1f8-dbe533bfe8e8/sist



iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 8362-1:2019
https://standards.iteh.ai/catalog/standards/sist/daa58e94-ab61-47df-a1f8-dbe533bfe8e8/sist



COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Fax: +41 22 749 09 47 Email: copyright@iso.org Website: www.iso.org Published in Switzerland

Con	tents	Page
Forew	vord	iv
Intro	duction	v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Dimensions	1
5	Designation	
6	Material	5
7	Performance	6
8	Requirements 8.1 Hydrolytic resistance 8.2 Annealing quality	6
9	Marking	6
Riblio	ngranhy	7

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN ISO 8362-1:2019</u>

https://standards.iteh.ai/catalog/standards/sist/daa58e94-ab61-47df-a1f8-dbe533bfe8e8/sisten-iso-8362-1-2019

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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 76, *Transfusion, infusion and injection equipment for medical and pharmaceutical use.*

This fourth edition cancels and replaces the third edition (ISO 8362-1:2009), which has been technically revised.

The main changes compared to the previous edition are:

- add an alternative for a chamfer shaped with ≈45° in Figure 1;
- add a 3R format in <u>Table 1</u>.

A list of all parts in the ISO 8362 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The purpose of this document is to specify the dimensions, capacities, form and requirements of glass vials intended for medical use. Containers made from glass tubing are considered to be suitable for the packaging and storage of injectable preparations until they are administered for medicinal purposes. Such containers may be made from different types of glass which can affect the chemical resistance properties; e.g., those made from borosilicate glass will have a very high level of chemical resistance whereas others made from soda-lime glass will have a lower, but adequate, chemical resistance for the purpose for which they are intended. The chemical resistance of the internal surface of containers made from soda-lime glass can be improved by means of a treatment during production aimed at producing a chemical resistance equal to that of those made from borosilicate glass for single use. This level of chemical resistance is maintained as long as the interior surface is not destroyed by chemical attack, in which case it is reduced to that of untreated soda-lime glass.

Because containers may be made from different types of glass and because it is the chemical behaviour of the internal surface which is important when they are filled with injectable preparations, it is essential to specify test procedures by which this performance can be measured. The procedures recommended in this document permit this performance, based on the hydrolytic resistance to be measured and, from the result of measurement, it is possible to classify containers into their correct category. The procedure also allows containers to be tested and to determine, after an intermediate stage, whether the hydrolytic resistance is produced by the composition of the glass as a material or by a treatment of the internal surface.

iTeh STANDARD PREVIEW (standards.iteh.ai)

https://standards.iteh.ai/catalog/standards/sist/daa58e94-ab61-47df-a1f8-dbe533bfe8e8/sist-en-iso-8362-1-2019

oSIST prEN ISO 8362-1:2019

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 8362-1:2019 ndards.iteh.ai/catalog/standards/sist/daa58e94-ab61-47df-a1f8-dbe533bfe8e8/sist

Injection containers and accessories —

Part 1:

Injection vials made of glass tubing

1 Scope

This document specifies the form, dimensions and capacities of glass vials for injectable preparations. It also specifies the material from which such containers are made and the performance requirements of those containers.

This document is applicable to colourless or amber glass containers made from borosilicate or sodalime glass, made from glass tubing, whether internally surface-treated or not, and intended to be used in the packaging, storage or transportation of products intended for injection.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 719, Glass — Hydrolytic resistance of glass grains at 98 degrees C — Method of test and classification

ISO 720, Glass — Hydrolytic resistance of glass grains at 121 degrees C — Method of test and classification

ISO 4802-1, Glassware — Hydrolytic resistance of the interior surfaces of glass containers — Part 1: Determination by titration method and classification

ISO 4802-2, Glassware — Hydrolytic resistance of the interior surfaces of glass containers — Part 2: Determination by flame spectrometry and classification

3 Terms and definitions

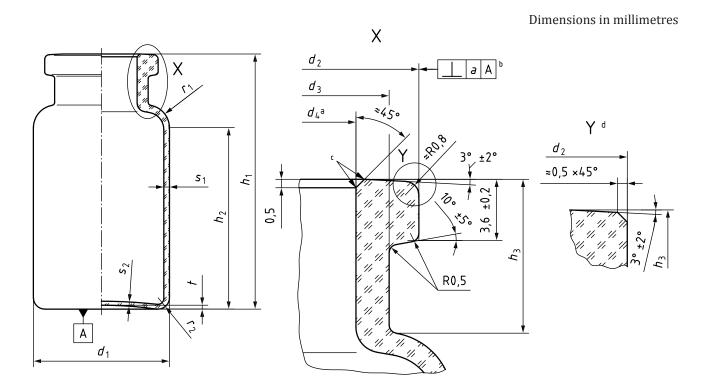
For the purposes of this document, the terms and definitions given in ISO 4802-1 and ISO 4802-2 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at http://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

4 Dimensions

The dimensions of injection vials made of glass tubing shall meet the requirements of <u>Figure 1</u>, <u>Figure 2</u> or <u>Figure 3</u>, as appropriate, and <u>Table 1</u>; the brimful capacity and mass shall be as shown in <u>Table 1</u>.



- The opening of the vial should have a constant diameter, over the entire distance, h_3 , i.e. it should exhibit a cylindrical shape. A slightly conical shape can be accepted if the following requirements are fulfilled:
 - the truncated cone has the height h_3 ;
 - the larger diameter is located at the flange or as agreed upon;
 - the larger diameter does not exceed the smaller one by more than 0,3 mm.
- The perpendicularity tolerance *a* (as defined in ISO 1101) is a limit for the deviation of the plumb-line through the centre of the bottom part and the axis of the vial at the upper edge of the flange; it is measured at the brim.
- c Edges slightly rounded.
- d \approx R0,8 (a chamfer shaped with \approx 45° is alternatively also feasable).

Figure 1 — Typical example of injection vial made of glass tubing containing a neck finish without blow back — Model A