

SLOVENSKI STANDARD oSIST prEN 868-8:2017

01-oktober-2017

Embalaža za končno sterilizirane medicinske pripomočke - 8. del: Ponovno uporabljivi vsebniki za parne sterilizatorje po EN 285 - Zahteve in preskusne metode

Packaging for terminally sterilized medical devices - Part 8: Re-usable sterilization containers for steam sterilizers conforming to EN 285 - Requirements and test methods

Verpackungen für in der Endverpackung zu sterilisierende Medizinprodukte - Teil 8: Wiederverwendbare Sterilisierbehälter für Dampf-Sterilisatoren nach EN 285 - Anforderungen und Prüfverfahren

Matériaux et systèmes d'emballage pour les dispositifs médicaux stérilisés au stade terminal - Partie 8 : Conteneurs réutilisables de stérilisation pour stérilisateurs à la vapeur d'eau conformes à l'EN 285 - Exigences et méthodes d'essai

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

DRAFT prEN 868-8

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ICS 11.080.30

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English Version

Packaging for terminally sterilized medical devices - Part 8: Re-usable sterilization containers for steam sterilizers conforming to EN 285 - Requirements and test methods

Matériaux d'emballage pour les dispositifs médicaux -Partie 8 : Conteneurs réutilisables de stérilisation pour stérilisateurs à la vapeur d'eau conformes à l'EN 285 -Exigences et méthodes d'essai Verpackungen für in der Endverpackung zu sterilisierende Medizinprodukte - Teil 8: Wiederverwendbare Sterilisierbehälter für Dampf-Sterilisatoren nach EN 285 - Anforderungen und Prüfverfahren

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 102.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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 CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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European foreword

This document (prEN 868-8:2017) has been prepared by Technical Committee CEN/TC 102 "Sterilizers and associated equipment for processing of medical devices", the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 886-8:2009.

Annex A provides details of significant technical changes between this European Standard and the previous edition.

EN 868 consists of the following parts, under the general title *Packaging for terminally sterilized medical devices*:

- Part 2: Sterilization wrap Requirements and test methods;
- Part 3: Paper for use in the manufacture of paper bags (specified in EN 868-4) and in the manufacture of pouches and reels (specified in EN 868-5) Requirements and test methods;
- Part 4: Paper bags Requirements and test methods;
- Part 5: Sealable pouches and reels of porous materials and plastic film construction Requirements and test methods;
- Part 6: Paper for low temperature sterilization processes Requirements and test methods;
- Part 7: Adhesive coated paper for low temperature sterilization processes Requirements and test methods;
- Part 8: Re-usable sterilization containers for steam sterilizers conforming to EN 285 Requirements and test methods;
- Part 9: Uncoated nonwoven materials of polyolefines Requirements and test methods;
- Part 10: Adhesive coated nonwoven materials of polyolefines Requirements and test methods.

In addition, ISO/TC 198 "Sterilization of health care products" in collaboration with CEN/TC 102 "Sterilizers and associated equipment for processing of medical devices" has prepared the EN ISO 11607- series "Packaging for terminally sterilized medical devices". The EN ISO 11607 series specifies general requirements for materials, sterile barrier systems and packaging systems (Part 1) and validation requirements for forming, sealing and assembly processes (Part 2).

Introduction

The EN ISO 11607 series consists of two parts under the general title "Packaging for terminally sterilized medical devices". Part 1 of this series specifies general requirements and test methods for materials, preformed sterile barrier systems, sterile barrier systems and packaging systems that are intended to maintain sterility of terminally sterilized medical devices to the point of use. Part 2 of this series specifies validation requirements for forming, sealing and assembly processes.

General requirements for all types of sterile barrier systems are provided by EN ISO 11607-1.

The EN 868 series can be used to demonstrate compliance with one or more of the requirements specified in EN ISO 11607-1.

CEN/TC 102/WG 4 also appreciates the initiatives of CEN with regard to the minimization of adverse environmental impacts by standards. It was agreed that this subject should be given priority during the next edition of the EN ISO 11607 series that is the basic reference for all parts of the EN 868 series.

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1 Scope

This part of EN 868 provides test methods and values for re-usable containers used as sterile barrier systems that are intended to maintain sterility of terminally sterilized medical devices to the point of use. These containers are intended to be used in steam sterilizers conforming to EN 285.

NOTE 1 The need for a packaging material inside the container is determined by the manufacturers and users.

Other than the general requirements as specified in EN ISO 11607-1 and EN ISO 11607-2 this part of EN 868 specifies materials, test methods and values that are specific to the products covered by this European Standard.

NOTE 2 When it is intended to use the containers in a steam sterilizer not conforming to EN 285 the sterilization performance of the container in the specific sterilization cycle to be used is validated by the user. Other attributes of the container are also reviewed for compatibility with the sterilizer cycle, e.g. operating temperature.

NOTE 3 When additional materials are used inside the sterile barrier system in order to ease the organization, drying or aseptic presentation (e.g. inner wrap, indicators, packing lists, mats, instrument organizer sets, tray liners or an additional envelope around the medical device) then other requirements, including the determination of the acceptability of these materials during validation activities, can apply.

Secretary remark (to be deleted by formal vote stage): CEN/TC 102/WG 4 proposes to change the Scope of the work item in order to align the scope with the recently published new editions of EN 868-2, -3, 4--6 and -7. Please consider that a positive ballot on prEN 858-8 during enquiry includes the approval of the revised scope.

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.

EN 285:2015, Sterilization - Steam sterilizers - Large sterilizers

EN 10088-1, Stainless steels - Part 1: List of stainless steels

EN ISO 4017:2014, Fasteners - Hexagon head screws - Product grades A and B (ISO 4017:2014)

EN ISO 11607-1:2009, Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging systems (ISO 11607-1:2006)

ISO 4582, Plastics — Determination of changes in colour and variations in properties after exposure to daylight under glass, natural weathering or laboratory light sources

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 11607-1:2009 and EN 285:2015 apply.

4 Requirements

4.1 General

For any preformed sterile barrier system or sterile barrier system, the requirements of EN ISO 11607-1 apply.

This part of EN 868 only introduces performance requirements and test methods that are specific to the products covered by this part of EN 868 but does not add or modify the general requirements specified in EN ISO 11607-1.

As such, the particular requirements in 4.2, 4.3 and 4.4 can be used to demonstrate compliance with one or more but not all of the requirements of EN ISO 11607-1.

NOTE 1 Compliance to EN 868-8 does not automatically mean compliance to EN ISO 11607-1.

A confirmation of compliance to EN 868-8 shall contain a statement whether EN ISO 11607-1 is covered.

NOTE 2 When additional materials are used inside the sterile barrier system in order to ease the organization, drying or aseptic presentation (e.g. inner wrap, container filter, indicators, packing lists, mats, instrument organizer sets, tray liners or an additional envelope around the medical device) then other requirements, including the determination of the acceptability of these materials during validation activities, can apply.

4.2 Requirements for construction and design

4.2.1 Shape and dimension

- **4.2.1.1** The container shall be in the general form of a parallelepipedal box.
- NOTE Slight curvature or camber of the flat surfaces can be acceptable. Rounding of the corners is desirable.
- **4.2.1.2** The container including all connected parts, e.g. carrying devices shall fit within one sterilization module (see EN 285). SIST EN 868-8:2019
- NOTE 1 If the container does not fit within one sterilization module, but complies with all other requirements of this part of the standard, the manufacturer can claim compliance with EN ISO 11607-1, but not with EN 868-8.
- NOTE 2 For guidance on dimensions see informative Annex B.
- **4.2.1.3** For ease of cleaning all internal corners shall be radiused.

4.2.2 Lids and lid-latching devices

- **4.2.2.1** Access to the interior of the container shall be provided by a lid.
- **4.2.2.2** The lid shall be secured to the base during use by locking devices. The closure shall comply with the requirements in EN ISO 11607-1:2009, 5.1.10 c).

4.2.3 Tamper evident closure system

- **4.2.3.1** A tamper evident closure system complying with EN ISO 11607-1:2009, 5.1.10 a) shall be available.
- **4.2.3.2** If the 'tamper evident' closure system is not a single-use disposable item, i.e. does not irrevocably break when opened, then a special tool, key, code or treatment shall be required to re-set the closure system.

4.2.4 Gasket

- **4.2.4.1** The interface between the lid and base shall be provided with a closure gasket. The closure formed by the gasket with the lid latched in position shall provide microbial barrier properties as specified in EN ISO 11607-1:2009, 5.2 and 5.1.10 c).
- **4.2.4.2** The gasket shall be accessible for cleaning. Frequency and method of maintenance shall be specified by the manufacturer (see Clause 5).

4.2.5 Carrying devices

4.2.5.1 Each container shall be provided with a suitable carrying device.

NOTE Containers that are small enough to be grabbed, held and carried safely can be without a carrying device.

4.2.5.2 The carrying devices, the means of their attachment to the container, and the container itself shall be sufficiently robust to support the weight of the filled container without permanent deformation > 1 mm when tested in accordance with Annex C. If a permanent deformation is measured, performance characteristics of the container (in particular sterile barrier properties) shall be demonstrated to remain unchanged.

4.2.6 Stacking capability

4.2.6.1 The top and base of each container shall be sufficiently strong to allow stacking and shall be fitted with means to ensure that all containers of the same nominal size and of the same provenance shall stack securely.

After the test in accordance with Annex D, the container shall show no permanent deformation > 1 mm and shall have unchanged performance characteristics.

When tested in accordance with Annex E, the tested container shall remain stacked.

4.2.6.2 The containers shall be designed and constructed so that when stacked and loaded into the sterilizer in the manner specified by the manufacturer they will allow free passage of steam and/or air between containers.

Compliance shall be tested by the performance tests carried out as described in Annexes C to F.

4.2.7 Sterilant Port

- **4.2.7.1** Each container shall be provided with a sterilant port in one or more of its principle surfaces.
- **4.2.7.2** The sterilant port shall be designed to meet the following requirements:

It shall permit the attainment of the specified sterilization conditions.

Compliance shall be tested in accordance with Annex F.

It shall permit adequate drying when processed in a sterilizer conforming to EN 285.

Compliance shall be tested in accordance with Annex G.

It shall permit microbial barrier properties during removal, transport and subsequent storage as specified in EN ISO 11607-1:2009, 5.1.10 b).

Compliance shall be tested in accordance with applicable barrier tests (see EN ISO 11607-1:2009).