



BSI Standards Publication

Aseptic processing of health care products

Part 6: Isolator systems

National foreword

This British Standard is the UK implementation of EN ISO 13408-6:2021. It is identical to ISO 13408-6:2021. It supersedes BS EN ISO 13408-6:2011+A1:2013, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CH/198, Sterilization and Associated Equipment and Processes.

A list of organizations represented on this committee can be obtained on request to its committee manager.

This publication has been prepared under a mandate given to the European Standards Organizations by the European Commission and the European Free Trade Association and is intended to support essential requirements of the EU legislation detailed in the European foreword. Annex ZA/ZZ describes how the publication relates to the legislation.

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For the Northern Ireland market, UK law will continue to implement relevant EU law subject to periodic confirmation. References to EU legislation are therefore still valid.

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Amendments/corrigenda issued since publication

Date

Text affected

English Version

Aseptic processing of health care products - Part 6:
Isolator systems (ISO 13408-6:2021)

Traitement aseptique des produits de santé - Partie
6: Systèmes isolateurs (ISO 13408-6:2021)

Aseptische Herstellung von Produkten
für die Gesundheitsfürsorge - Teil 6:
Isolatorenssysteme (ISO 13408-6:2021)

This European Standard was approved by CEN on 7 June 2020.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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

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European foreword

This document (EN ISO 13408-6:2021) has been prepared by Technical Committee ISO/TC 198 "Sterilization of health care products" in collaboration with Technical Committee CEN/TC 204 "Sterilization of medical devices" the secretariat of which is held by BSI.

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 November 2021, and conflicting national standards shall be withdrawn at the latest by November 2021.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 13408-6:2011.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative [Annex ZA](#), [ZB](#), [ZC](#), [ZD](#) and [ZE](#) which are an integral parts of this document.

This document is an adoption of an International Standard. As the scope of the applicable regulatory requirements differ from nation to nation and region to region, the scope of this document can differ from the scope of the European Regulations that it supports. This document supports European regulatory requirements only to the extent of the scope of the European regulations for medical devices and in vitro diagnostic medical devices. For relationship with EU Directive(s) and Regulations, see informative [Annex ZA](#), [ZB](#), and [ZC](#), and additional [Annexes ZD](#) and [ZE](#) which are an integral part of this document.

The following referenced documents are indispensable for the application of this document. For undated references, the latest edition of the referenced document (including any amendments) applies. For dated references, only the edition cited applies. However, for any use of this standard 'within the meaning of [Annexes ZA](#), [ZB](#), [ZC](#), [ZD](#) and [ZE](#)', the user should always check that any referenced document has not been superseded and that its relevant contents can still be considered the generally acknowledged state-of-art.

When an IEC or ISO standard is referred to in the ISO standard text, this should be understood as a normative reference to the corresponding EN standard, if available, and otherwise to the dated version of the ISO or IEC standard as listed below.

NOTE The way in which these referenced documents are cited in normative requirements determines the extent (in whole or in part) to which they apply.

Table — – Correlation between normative references and dated EN and ISO standards

Normative references as listed in Clause 2 of the ISO standard	Equivalent dated standard	
	EN	ISO
ISO 11139	EN ISO 11139:2018	ISO 11139:2018
ISO 13408-1:2008	EN ISO 13408-1:2015	ISO 13408-1:2008
ISO 13408-4	EN ISO 13408-4:2011	ISO 13408-4:2005
ISO 13408-7	EN ISO 13408-7:2015	ISO 13408-7:2012
ISO 14644-1:2015	EN ISO 14644-1:2015	ISO 14644-1:2015
ISO 14644-7	EN ISO 14644-7:2004	ISO 14644-7:2004
ISO 18362:2016	No equivalent	ISO 18362:2016
ISO/IEC/IEEE 90003	No equivalent	ISO/IEC/IEEE 90003:2018

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

Endorsement notice

The text of ISO 13408-6:2021 has been approved by CEN as EN ISO 13408-6:2021 without any modification.

Annex ZA (informative)

Relationship between this European Standard and the essential requirements of Directive 90/385/EEC [OJ L 189] aimed to be covered

This European Standard has been prepared under a Commission's mandate M/295 concerning the development of European Standards related to medical devices to provide one voluntary means of conforming to essential requirements of Council Directive 90/385/EEC of 20 June 1990 on the approximation of the laws of the Member States relating to active implantable medical devices [OJ L 189].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in [Table ZA.1](#) confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

NOTE 1 Where a reference from a clause of this standard to the risk management process is made, the risk management process needs to be in compliance with Directive 90/385/EEC as amended by 2007/47/EC. This means that risks have to be reduced 'as far as possible', 'to a minimum', 'to the lowest possible level', 'minimized' or 'removed', according to the wording of the corresponding essential requirement.

NOTE 2 The manufacturer's policy for determining acceptable risk must be in compliance with Essential Requirements 1, 4, 5, 8, 9 and 10 of the Directive.

NOTE 3 This [Annex ZA](#) is based on normative references according to the table of references in the European foreword, replacing the references in the core text.

NOTE 4 When an Essential Requirement does not appear in Table ZA.1, it means that it is not addressed by this European Standard.

Table ZA.1 — Correspondence between this European Standard and Annex I of Directive 90/385/EEC [OJ L 189]

Essential Requirements of Directive 90/385/EEC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
7	4,5,6,7,8,9,10	This Essential Requirement is addressed only with regard to devices for which use of isolators for aseptic processing is appropriate. In conjunction with EN ISO 13408-1, this relevant Essential Requirement is only partly addressed in this International Standard. Design and packaging for maintenance of sterility during transportation and storage are not covered. Aspects of manufacture other than those related to the use of isolators for aseptic processing are not covered.

WARNING 1 Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 Other Union legislation may be applicable to the products falling within the scope of this standard.

Annex ZB (informative)

Relationship between this European Standard and the essential requirements of Directive 93/42/EEC [OJ L 169] aimed to be covered

This European Standard has been prepared under a Commission's mandate M/295 concerning the development of European Standards related to medical devices to provide one voluntary means of conforming to essential requirements of Council Directive 93/42/EEC of 14 June 1993 concerning medical devices [OJ L 169].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in [Table ZB.1](#) confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

NOTE 1 Where a reference from a clause of this standard to the risk management process is made, the risk management process needs to be in compliance with Directive 93/42/EEC as amended by 2007/47/EC. This means that risks have to be reduced 'as far as possible', 'to a minimum', 'to the lowest possible level', 'minimized' or 'removed', according to the wording of the corresponding essential requirement.

NOTE 2 The manufacturer's policy for determining acceptable risk must be in compliance with Essential Requirements 1, 2, 5, 6, 7, 8, 9, 11 and 12 of the Directive.

NOTE 3 This [Annex ZB](#) is based on normative references according to the table of references in the European foreword, replacing the references in the core text.

NOTE 4 When an Essential Requirement does not appear in Table ZB.1, it means that it is not addressed by this European Standard.

Table ZB.1 — Correspondence between this European Standard and Annex I of Directive 93/42/EEC [OJ L 169]

Essential Requirements of Directive 93/42/EEC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
8.3	4,5,6,7,8,9,10	This Essential Requirement is addressed only with regard to devices for which use of isolators for aseptic processing is appropriate. In conjunction with EN ISO 13408-1, this relevant Essential Requirement is only partly addressed in this European Standard. Design and packaging for maintenance of sterility during transportation and storage are not covered. Aspects of manufacture other than those related to the use of isolators for aseptic processing are not covered.

Essential Requirements of Directive 93/42/EEC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
8.4	4,5,6,7,8,9,10	This relevant Essential Requirement is only partly addressed in this European Standard. Aspects of manufacture other than those related to the use of isolators for aseptic processing are not covered. This Essential Requirement is addressed only with regard to devices for which the use of isolators for aseptic processing is appropriate.

WARNING 1 Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 Other Union legislation may be applicable to the products falling within the scope of this standard.

Annex ZC (informative)

Relationship between this European Standard and the essential requirements of Directive 98/79/EC [OJ L 331] aimed to be covered

This European Standard has been prepared under a Commission's mandate, M/252, concerning the development of European Standards related to in vitro diagnostic medical devices to provide one voluntary means of conforming to essential requirements of Council Directive 98/79/EC of the European Parliament and of the Council of 27 October 1998 on in vitro diagnostic medical devices [OJ L 331].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in [Table ZC.1](#) confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

NOTE 1 Where a reference from a clause of this standard to the risk management process is made, the risk management process needs to be in compliance with Directive 98/79/EC. This means that risks have to be reduced 'as far as possible', 'to a minimum', 'to the lowest possible level', 'minimized' or 'removed', according to the wording of the corresponding essential requirement.

NOTE 2 The manufacturer's policy for determining acceptable risk must be in compliance with Essential Requirements Part A: 1, 2 and 5; Part B: 1.2, 2, 3, 5, 6 and 7 of the Directive.

NOTE 3 This [Annex ZC](#) is based on normative references according to the table of references in the European foreword, replacing the references in the core text.

NOTE 4 When an Essential Requirement does not appear in Table ZC.1, it means that it is not addressed by this European Standard.

Table ZC.1 — Correspondence between this European Standard and Annex I of Directive 98/79/EC [OJ L 331]

Essential Requirements of Directive 98/79/EC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
B.2.3	4,5,6,7,8,9,10	This Essential Requirement is addressed only with regard to devices for which use of isolators for aseptic processing is appropriate. In conjunction with EN ISO 13408-1, this relevant Essential Requirement is only partly addressed in this European Standard. Design and packaging for maintenance of sterility during transportation and storage are not covered. Aspects of manufacture other than those related to the use of isolators for aseptic processing are not covered.

Essential Requirements of Directive 98/79/EC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
B.2.4	4,5,6,7,8,9,10	This relevant Essential Requirement is addressed only with regard to devices for which the use of isolators for aseptic processing is appropriate

WARNING 1 Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 Other Union legislation may be applicable to the products falling within the scope of this standard.

Annex ZD (informative)

Relationship between this European Standard and the General Safety and Performance requirements of Regulation (EU) 2017/745 aimed to be covered

This European standard has been prepared under a Commission's standardisation request to provide one voluntary means of conforming to the General Safety and Performance Requirements of Regulation (EU) 2017/745 of 5 April 2017 concerning medical devices [OJ L 117].

Once this standard is cited in the Official Journal of the European Union under that Regulation, compliance with the normative clauses of this standard given in [Table ZD.1](#) confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding General Safety and Performance requirements of that Regulation, and associated EFTA regulations.

NOTE 1 Where a reference from a clause of this standard to the risk management process is made, the risk management process needs to be in compliance with Regulation (EU) 2017/745. This means that risks have to be 'reduced as far as possible', 'reduced to the lowest possible level', 'reduced as far as possible and appropriate', 'removed or reduced as far as possible', 'eliminated or reduced as far as possible', 'removed or minimized as far as possible', or 'minimized', according to the wording of the corresponding General Safety and Performance Requirement.

NOTE 2 The manufacturer's policy for determining acceptable risk must be in compliance with General Safety and Performance Requirements 1, 2, 3, 4, 5, 8, 9, 10, 11, 14, 16, 17, 18, 19, 20, 21 and 22 of the Regulation.

NOTE 3 This [Annex ZD](#) is based on normative references according to the table of references in the European Foreword, replacing the references in the core text.

NOTE 4 When a General Safety and Performance Requirement does not appear in Table ZD.1, it means that it is not addressed by this European Standard.

Table ZD.1 — Correspondence between this European Standard and Annex I of Regulation (EU) 2017/745 [OJ L 117]

General Safety and Performance Requirements of Regulation (EU) 2017/745	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
11.3	4,5,6,7,8,9,10	This standard provides requirements for the specification, selection, qualification, bio-decontamination, validation, operation and control of isolator systems related to aseptic processing. This General Safety and Performance Requirement is addressed only with regard to devices for which use of isolators for aseptic processing is appropriate. In conjunction with EN ISO 13408-1, this relevant General Safety and Performance Requirement is only partly addressed in this European Standard. Design and packaging for maintenance of sterility are not covered. Aspects of manufacture other than those related to maintenance of a specific microbial state by aseptic processing within an isolator are not covered.
11.4 first sentence only	4,5,6,7,8,9,10	This standard provides requirements for the specification, selection, qualification, bio-decontamination, validation, operation and control of isolator systems related to aseptic processing. This General Safety and Performance Requirement is addressed only with regard to devices for which use of isolators for aseptic processing is appropriate. In conjunction with EN ISO 13408-1, this relevant General Safety and Performance Requirement is only partly addressed in this European Standard. Design and packaging for maintenance of sterility are not covered. Evidence that the integrity of the packaging is maintained to the point of use is not covered. Aspects of manufacture other than those related to maintenance of sterility during aseptic processing within an isolator are not covered.