BS EN ISO 14630:2024

BSI Standards Publication

Non-active surgical implants — General requirements

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National foreword

This British Standard is the UK implementation of EN ISO 14630:2024. It is identical to ISO 14630:2024. It supersedes BS EN ISO 14630:2012, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CH/150, Implants for surgery.

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

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For the Great Britain market (England, Scotland and Wales), if UK Government has designated this publication for conformity with UKCA marking (or similar) legislation, it may contain an additional National Annex. Where such a National Annex exists, it shows the correlation between this publication and the relevant UK legislation. If there is no National Annex of this kind, the relevant Annex ZA or ZZ in the body of the European text will indicate the relationship to UK regulation applicable in Great Britain. References to EU legislation may need to be read in accordance with the UK designation and the applicable UK law. Further information on designated standards can be found at www.bsigroup.com/standardsandregulation.

For the Northern Ireland market, UK law will continue to implement relevant EU law subject to periodic confirmation. Therefore Annex ZA/ZZ in the European text, and references to EU legislation, are still valid for this market.

UK Government is responsible for legislation. For information on legislation and policies relating to that legislation, consult the relevant pages of www.gov.uk.

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ICS 11.040.40

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 December 2024.

Amendments/corrigenda issued since publication

Date	Text affected

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 14630

December 2024

ICS 11.040.40

Supersedes EN ISO 14630:2012

English Version

Non-active surgical implants - General requirements (ISO 14630:2024)

Implants chirurgicaux non actifs - Exigences générales (ISO 14630:2024)

Nichtaktive chirurgische Implantate - Allgemeine Anforderungen (ISO 14630:2024)

This European Standard was approved by CEN on 17 July 2024.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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.

CEN members are the national standards bodies of 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, Türkiye and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN ISO 14630:2024) has been prepared by Technical Committee ISO/TC 150 "Implants for surgery" in collaboration with Technical Committee CEN/TC 285 “Non-active surgical implants” 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 2025, and conflicting national standards shall be withdrawn at the latest by June 2025.

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 14630:2012.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users’ national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 14630:2024 has been approved by CEN as EN ISO 14630:2024 without any modification.

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Annex ZA
(informative)

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

This European standard has been prepared under M/575 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] and to system or process requirements including those relating to quality management systems, risk management, post-market surveillance systems, clinical investigations, clinical evaluation or post-market clinical follow-up.

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 ZA.1 and application of the edition of the normatively referenced standards as given in Table ZA.2 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.

Where a definition in this harmonised standard differs from a definition of the same term set out in Regulation (EU) 2017/745, the differences are indicated in the Annex ZA. For the purpose of using this standard in support of the requirements set out in Regulation (EU) 2017/745, the definitions set out in this Regulation prevail.

Where the European standard is an adoption of an International Standard, the scope of this document can differ from the scope of the European Regulation that it supports. As the scope of the applicable regulatory requirements differ from nation to nation and region to region the standard can only support European regulatory requirements to the extent of the scope of the European Regulation for medical devices ((EU) 2017/745).

For application of this European standard under Regulation (EU) 2017/745,

1. it is recognized that the normatively referenced ISO 10993-1 includes a dated reference to ISO 14971:2007 which is outdated and for application of this European standard under Regulation (EU) 2017/745 the most recent European version EN ISO 14971:2019 + A11:2021 shall be used;

2. it is recognized that the limits for residuals of ethylene oxide referenced in 9.4 and specified in the normatively referenced EN ISO 10993-7:2008 + AC 2009 + A1 2022 are not designed for patients with weight lower than 70 kg and are in particular not appropriate for neonates and other patients with a weight substantially below 70 kg;

3. it is recognized that the normatively referenced ISO 20857 refers to “applicable clauses of ISO 13485” and that for application of this European standard under Regulation (EU) 2017/745 the most recent European version EN ISO 13485:2016 + AC:2018 + A11:2021 shall be used.

4. it is recognized that the normatively referenced ISO 22442-1 states in its introduction that it can only be used in combination with ISO 14971 and is not a “stand-alone” standard and it is also recognized that for application of this European standard under Regulation (EU) 2017/745 the most recent European version EN ISO 14971:2019 + A11:2021 shall be used;

5. it is recognized that this European standard does not cover any of the legal requirements of Regulation (EU) 722/2012 which are applicable to devices or system or process requirements falling under its scope.

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

Differences in definitions of the terms set out in Regulation (EU) 2017/745

Definition in Regulation (EU) 2017/745, Article 2	**Definition in EN ISO 14630**	**Explanation**
44 'clinical evaluation means a systematic and planned process to continuously generate, collect, analyse and assess the clinical data pertaining to a device in order to verify the safety and performance including clinical benefits of the device when used as intended by the manufacture'	**3.4 clinical evaluation:** set of ongoing activities that use scientifically sound methods for the assessment and analysis of clinical data to verify the safety, clinical performance and/or effectiveness of the device when used as intended by the manufacturer	Since EN ISO 14630 is based on an international standard, the definition in the standard is taken from IMDRF MDCE WG/N56FINAL:2019, 4.0. While the exact wording differs, the intent of the definitions seems to be mostly identical. For the purpose of using this standard in support of the requirements set out in Regulation (EU) 2017/745, the definitions set out in this Regulation prevail.
45 'clinical investigation means any systematic investigation involving one or more human subjects undertaken to assess the safety or performance of a device'	**3.5 clinical investigation** systematic investigation or study in or on one or more human subjects, undertaken to assess the safety, clinical performance and/or effectiveness of a medical device	Since EN ISO 14630 is based on an international standard, the definition in the standard is taken from IMDRF MDCE WG/N56FINAL:2019, 4.0. While the exact wording differs, the intent of the definitions seems to be mostly identical. For the purpose of using this standard in support of the requirements set out in Regulation (EU) 2017/745, the definitions set out in this Regulation prevail.
30 'manufacturer means a natural or legal person who manufacturers or fully refurbishes a device or has a device designed, manufactured or fully refurbished and	**3.12 manufacturer:** natural or legal person with responsibility for design and/or manufacture of an *implant* (3.14) with the intention of making the *implant* available for use, under his name, whether or	Since EN ISO 14630 is based on an international standard, the definition in the standard is taken from ISO 14971:2019, 3.9 and was only slightly modified by replacing "Medical device" by "*implant*". For the purpose of using this standard in support of the requirements set out in

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markets that device under its name or trademark'	not such an *implant* is designed and/or manufactured by that person himself or on his behalf by another person(s)	Regulation (EU) 2017/745, the definitions set out in this Regulation prevail.

Table ZA.1 — Correspondence between this European Standard and Annex I of Regulation (EU) 2017/745 [OJ L 117] and to system or process requirements including those relating to quality management systems, risk management, post-market surveillance systems, clinical investigations, clinical evaluation or post-market clinical follow-up

General Safety and Performance Requirements of Regulation (EU) 2017/745	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
23.1 (a)	11.3	23.1 (a) is covered with respect to legibility of the label by 11.3 (Label) which requires that the information on the label shall be legible under illumination of 215 lux using normal vision at a distance of 1 m.

Table ZA.2 — Applicable Standards to confer presumption of conformity as described in this Annex ZA

Reference in Clause 2	International Standard Edition	Title	Corresponding European Standard Edition
ISO 10993-1	ISO 10993-1:2018	Biological evaluation of medical devices — Part 1: Evaluation and testing within a risk management process	EN ISO 10993-1:2020
ISO 10993-7	ISO 10993-7:2008 + Cor 1:2009 + Amd 1: 2019	Biological evaluation of medical devices — Part 7: Ethylene oxide sterilization residuals	EN ISO 10993-7:2008 + AC:2009 + A1:2022
ISO 10993-17	ISO 10993-17:2023	Biological evaluation of medical device — Part 17: Toxicological risk assessment of medical device constituents	EN ISO 10993-17:2023
ISO 11135	ISO 11135:2014 + Amd 1:2018	Sterilization of health care products — Ethylene oxide — Requirements for the development, validation and routine control of a sterilization process for medical devices	EN ISO 11135:2014 + A1:2019
ISO 11137-1	ISO 11137-1:2006 + Amd 1:2013 + Amd 2:2018	Sterilization of health care products — Radiation — Part 1: Requirements for development,	EN ISO 11137-1:2015 + A2:2019

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		validation and routine control of a sterilization process for medical devices	
ISO 11137-2	ISO 11137-2:2013 + Amd 1:2022	Sterilization of health care products — Radiation — Part 2: Establishing the sterilization dose	EN ISO 11137-2:2015 + A1:2023
ISO 11137-3	ISO 11137-3:2017	Sterilization of health care products — Radiation — Part 3: Guidance on dosimetric aspects of development, validation and routine control	EN ISO 11137-3:2017
ISO 11607-1	ISO 11607-1:2019 + Amd 1:2023	Packaging for terminally sterilized medical devices — Part 1: Requirements for materials, sterile barrier systems and packaging systems	EN ISO 11607-1:2020 + A1:2023
ISO 11607-2	ISO 11607-2:2019 + Amd 1:2023	Packaging for terminally sterilized medical devices — Part 2: Validation requirements for forming, sealing and assembly processes	EN ISO 11607-2:2020 + A1:2023
ISO 13408-1	ISO 13408-1:2023	Aseptic processing of health care products — Part 1: General requirements	EN ISO 13408-1:2024
ISO 14155	ISO 14155:2020	Clinical investigation of medical devices for human subjects — Good clinical practice	EN ISO 14155:2020
ISO 14160	ISO 14160:2020	Sterilization of health care products — Liquid chemical sterilizing agents for single-use medical devices utilizing animal tissues and their derivatives — Requirements for characterization, development, validation and routine control of a sterilization process for medical devices	EN ISO 14160:2021
ISO 14937	ISO 14937:2009	Sterilization of health care products — General requirements for characterization of a sterilizing agent and the development, validation and routine control of a sterilization process for medical devices	EN ISO 14937:2009
ISO 14971	ISO 14971:2019	Medical devices — Application of risk management to medical devices	EN ISO 14971:2019 + A11:2021
ISO 17664-1	ISO 17664-1:2021	Processing of health care products — Information to be provided by	EN ISO 17664-1:2021

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		the medical device manufacturer for the processing of medical devices — Part 1: Critical and semi-critical medical devices	
ISO 17665	ISO 17665:2024	Sterilization of health care products — Moist heat — Requirements for the development, validation and routine control of a sterilization process for medical devices	EN ISO 17665:2024
ISO 20857	ISO 20857:2010	Sterilization of health care products — Dry heat — Requirements for the development, validation and routine control of a sterilization process for medical devices	EN ISO 20857:2013
ISO 22442-1	ISO 22442-1:2020	Medical devices utilizing animal tissues and their derivatives — Part 1: Application of risk management	EN ISO 22442-1:2020
ISO 22442-2	ISO 22442-2:2020	Medical devices utilizing animal tissues and their derivatives — Part 2: Controls on sourcing, collection and handling	EN ISO 22442-2:2020
ISO 22442-3	ISO 22442-3:2007	Medical devices utilizing animal tissues and their derivatives — Part 3: Validation of the elimination and/or inactivation of viruses and transmissible spongiform encephalopathy (TSE) agents	EN ISO 22442-3:2007
ISO 25424	ISO 25424:2018 + Amd 1:2022	Sterilization of health care products — Low temperature steam and formaldehyde — Requirements for development, validation and routine control of a sterilization process for medical devices	EN ISO 25424:2019 + A1:2022
ISO 80000-1	ISO 80000-1:2022	Quantities and units — Part 1: General	EN ISO 80000-1:2022

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The documents listed in the Column 1 of table ZA.2, in whole or in part, are normatively referenced in this document, i.e. are indispensable for its application. The achievement of the presumption of conformity is subject to the application of the edition of Standards as listed in Column 4 or, if no European Standard Edition exists, the International Standard Edition given in Column 2 of table ZA.2.

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 product(s) falling within the scope of this standard.

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