

Irish Standard I.S. EN ISO 13504:2012

Dentistry - General requirements for instruments and related accessories used in dental implant placement and treatment (ISO 13504:2012)

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Dentistry - General requirements for instruments and related accessories used in dental implant placement and treatment (ISO 13504:2012)

Médecine bucco-dentaire - Exigences générales relatives aux instruments et aux accessoires connexes utilisés en implantologie dentaire (ISO 13504:2012)

Zahnheilkunde - Allgemeine Anforderungen an bei der Implantation verwendete Instrumente und Zubehör (ISO 13504:2012)

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EN ISO 13504:2012 (E)

Foreword

This document (EN ISO 13504:2012) has been prepared by Technical Committee ISO/TC 106 "Dentistry" in collaboration with Technical Committee CEN/TC 55 "Dentistry" 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of an identical text or by endorsement, at the latest by January 2013, and conflicting national standards shall be withdrawn at the latest by January 2013.

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I.S. EN ISO 13504:2012 INTERNATIONAL STANDARD

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Dentistry — General requirements for instruments and related accessories used in dental implant placement and treatment

Médecine bucco-dentaire — Exigences générales relatives aux instruments et aux accessoires connexes utilisés en implantologie dentaire



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 13504 was prepared by Technical Committee ISO/TC 106, Dentistry, Subcommittee SC 4, Dental instruments.

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Introduction

The use of dental implants is increasing throughout the world. Due to improved and new applications of dental implants, the need for better instruments and related accessories to be used in the placement of dental implants and the further manipulation of connecting parts in the craniofacial area is also growing. Dental implants need to be approved by local authorities.

However, instruments used in the placement of dental implants are different and need a different approval procedure. This International Standard is intended to harmonize the approval procedures and to reduce the costs caused by repeated approval and test procedures in different countries.

Materials present in instruments used in dental implant procedures have proven to be well tolerated. Potential adverse reactions cannot be totally ruled out but such reactions are to be mitigated.

However, long-term clinical experience of the use of the materials referred to in this International Standard has shown that an acceptable level of biological response can be expected when they are used in appropriate applications and when instruments are manufactured under appropriate design considerations and processes.

Due to different stainless steel standards, Annex B has been added. This gives cross-references to designations of stainless steels which are listed in other international, regional or national standards designation systems.

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Dentistry — General requirements for instruments and related accessories used in dental implant placement and treatment

1 Scope

This International Standard specifies general requirements for the manufacture of instruments and related accessories used in the placement of dental implants and further manipulations of connecting parts in the craniofacial area.

It is applicable to single-use and reusable instruments, regardless of whether they are manually driven or connected to a power-driven system.

It is not applicable to the power-driven system itself, nor to the dental implant or to parts intended to be connected to the dental implant.

With regard to safety, this International Standard gives requirements for classification, intended performance, performance attributes, material selection, performance evaluation, manufacture, sterilization and information to be supplied by the manufacturer.

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 1043-1, Plastics Symbols and abbreviated terms Part 1: Basic polymers and their special characteristics
- ISO 1942, Dentistry Vocabulary
- ISO 2768-1, General tolerances Part 1: Tolerances for linear and angular dimensions without individual tolerance indications
- ISO 5832-2, Implants for surgery Metallic materials Part 2: Unalloyed titanium
- ISO 5832-3, Implants for surgery Metallic materials Part 3: Wrought titanium 6-aluminium 4-vanadium alloy
- ISO 7405, Dentistry Evaluation of biocompatibility of medical devices used in dentistry
- ISO 10993-1, Biological evaluation of medical devices Part 1: Evaluation and testing within a risk management process
- ISO 11135-1, Sterilization of health care products Ethylene oxide Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices
- ISO 11137-1, Sterilization of health care products Radiation Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices
- ISO 14155, Clinical investigation of medical devices for human subjects Good clinical practice
- ISO 14971, Medical devices Application of risk management to medical devices
- ISO 15223-1, Medical devices Symbols to be used with medical device labels, labelling and information to be supplied Part 1: General requirements
- ISO 17664, Sterilization of medical devices Information to be provided by the manufacturer for the processing of resterilizable medical devices



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