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Dentistry - Rotational adaptability test between implant body and implant abutment in dental implant systems (ISO 22683:2022)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Dentistry - Rotational adaptability test between implant body and implant abutment in dental implant systems (ISO 22683:2022)

Médecine bucco-dentaire - Essai d'évaluation de la liberté rotationnelle entre le corps d'implant et le pilier implantaire des systèmes d'implants dentaires (ISO 22683:2022)

Zahnheilkunde - Passungsprüfung zwischen Implantatkörper und Implantatabutment bei dentalen Implantatsystemen (ISO 22683:2022)

This European Standard was approved by CEN on 19 May 2022.

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

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European foreword

This document (EN ISO 22683:2022) 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of an identical text or by endorsement, at the latest by December 2022, and conflicting national standards shall be withdrawn at the latest by December 2022.

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Endorsement notice

The text of ISO 22683:2022 has been approved by CEN as EN ISO 22683:2022 without any modification.

INTERNATIONAL STANDARD

ISO 22683

First edition
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Dentistry — Rotational adaptability test between implant body and implant abutment in dental implant systems

Médecine bucco-dentaire — Essai d'évaluation de la liberté rotationnelle entre le corps d'implant et le pilier implantaire des systèmes d'implants dentaires

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Foreword

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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).

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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 106, *Dentistry*, Subcommittee SC 8, *Dental implants,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 55, *Dentistry,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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Introduction

The rotational adaptation between an implant body and an implant abutment is an important physical property as it affects the quality of fit between them and therefore resistance to loosening. In addition, correct adaptation between these components can influence the rotational positioning of the final prostheses, the accuracy of the occlusion which it provides, and its physical behaviour under load. The test is carried out when evaluating the physical properties of dental implant systems but there is currently no International Standard available, resulting in variance in the method and the requirements of adaptations.

INTERNATIONAL STANDARD **ISO 22683:2022(E)**

Dentistry — Rotational adaptability test between implant body and implant abutment in dental implant systems

1 Scope

This document specifies a test method to evaluate the rotational adaptability between an implant body and an implant abutment in a dental implant system.

This document is applicable to the implant systems which do not have a friction-fit between implant body and implant abutment but incorporate only an anti-rotational feature between these components. Analog or replica components cannot be used to evaluate the adaptability of dental implant systems.

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 1942, *Dentistry — Vocabulary*

ISO 16443, *Dentistry — Vocabulary for dental implants systems and related procedure*