BS EN ISO 22112:2017

BSI Standards Publication

# Dentistry - Artificial teeth for dental prostheses (ISO 22112:2017)

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# National foreword

This British Standard is the UK implementation of EN ISO 22112:2017. It is identical to ISO 22112:2017. It supersedes BS EN ISO 22112:2006, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CH/106/2, Prosthodontic materials.

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

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English Version

## Dentistry - Artificial teeth for dental prostheses (ISO 22112:2017)

Médecine bucco-dentaire - Dents artificielles pour prothèses dentaires (ISO 22112:2017)

Zahnheilkunde - Künstliche Zähne für Dentalprothesen (ISO 22112:2017)

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# European foreword

This document (EN ISO 22112:2017) 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of an identical text or by endorsement, at the latest by February 2018, and conflicting national standards shall be withdrawn at the latest by February 2018.

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 22112:2006.

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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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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by ISO/TC 106 *Dentistry*, Subcommittee SC 2 *Prosthodontic materials*.

This second edition cancels and replaces the first edition (ISO 22112:2005), which has been technically revised.

The main changes compared to the previous edition are as follows:

— clarification of colour and blending requirement for multi-layered teeth (5.1.3);

— clarification of test procedure for surface finishing (7.5);

— for testing of radioactivity of ceramic teeth: gamma spectroscopy system is added (7.8).

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**INTERNATIONAL STANDARD** **ISO 22112:2017(E)**

# Dentistry - Artificial teeth for dental prostheses (ISO 22112:2017)

## 1 Scope

This document specifies the classification, requirements, and test methods for artificial teeth such as ceramic teeth and polymer teeth that are industrially manufactured for use in dental prostheses.

## 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 483, *Plastics — Small enclosures for conditioning and testing using aqueous solutions to maintain the humidity at a constant value*

ISO 1942, *Dentistry — Vocabulary*

ISO 3950, *Dentistry — Designation system for teeth and areas of the oral cavity*

ISO 6344-1, *Coated abrasives — Grain size analysis — Part 1: Grain size distribution test*

ISO 6873:2013, *Dentistry — Gypsum products*

ISO 7491:2000, *Dental materials — Determination of colour stability*

ISO 20795-1, *Dentistry — Base polymers — Part 1: Denture base polymers*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1942 and ISO 20795-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at http://www.iso.org/obp

**3.1**
**artificial teeth**
manufactured product designed to simulate and replace natural teeth

**3.2**
**diatoric teeth**
teeth designed to be retained by anchorage slots and/or holes

**3.3**
**pin teeth**
teeth designed to be retained by headed pins

**3.4**
**set**
set of six anterior teeth or eight posterior teeth, as received from the manufacturer

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