

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

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ICS 11.060.10

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EUROPEAN STANDARD

EN ISO 22112

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2017

ICS 11.060.10

Supersedes EN ISO 22112:2006

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)

This European Standard was approved by CEN on 6 May 2017.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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of an identical text or by endorsement, at the latest by February 2018, and conflicting national standards shall be withdrawn at the latest by February 2018.

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Endorsement notice

The text of ISO 22112:2017 has been approved by CEN as EN ISO 22112:2017 without any modification.

Contents

	Page
Foreword	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Classification	2
5 Requirements	2
5.1 General	2
5.1.1 Biocompatibility	2
5.1.2 Dimensions of teeth	2
5.1.3 Colour and blending of shades	2
5.1.4 Surface finish	2
5.1.5 Porosity and other defects	3
5.2 Ceramic teeth	3
5.2.1 Radioactivity	3
5.2.2 Anchorage	3
5.2.3 Resistance to thermal shock	3
5.3 Polymer teeth	3
5.3.1 Bonding to denture base polymer	3
5.3.2 Resistance to blanching, distortion and crazing	3
5.3.3 Colour stability	3
5.3.4 Dimensional stability	3
6 Sampling	4
7 Measurement and test methods	4
7.1 Visual inspection	4
7.2 Dimensions of teeth	4
7.2.1 Reagents and/or materials	4
7.2.2 Apparatus	4
7.2.3 Procedure	4
7.3 Comparison with shade guide	5
7.3.1 Reagents and/or materials	5
7.3.2 Apparatus	5
7.4 Surface finish of ceramic teeth	5
7.4.1 Reagents and/or materials	5
7.4.2 Apparatus	6
7.4.3 Processing	6
7.4.4 Grinding	6
7.5 Surface finish of polymer teeth	6
7.5.1 Reagents and/or materials	6
7.5.2 Apparatus	7
7.5.3 Processing	7
7.6 Porosity of ceramic teeth and other defects	7
7.6.1 Reagents and/or materials	7
7.6.2 Apparatus	7
7.6.3 Preparation of specimens	8
7.6.4 Procedure	8
7.7 Porosity of polymer teeth and other defects	8
7.7.1 Reagents and/or materials	8
7.7.2 Apparatus	8
7.7.3 Procedure	8
7.8 Radioactivity of ceramic teeth	9
7.8.1 Reagents and/or materials	9
7.8.2 Apparatus	9

7.8.3	Sample preparation.....	10
7.8.4	Counting procedure.....	10
7.8.5	Assessment of results.....	10
7.9	Anchorage of ceramic teeth to denture base polymers.....	10
7.9.1	Reagents and/or materials.....	10
7.9.2	Apparatus.....	10
7.9.3	Procedure.....	10
7.10	Resistance of ceramic teeth to thermal shock.....	10
7.10.1	Reagents and/or materials.....	10
7.10.2	Apparatus.....	10
7.10.3	Preparation of specimens.....	11
7.10.4	Procedure.....	11
7.11	Bonding of polymer teeth to denture-base polymers.....	11
7.11.1	Reagents and/or materials.....	11
7.11.2	Apparatus.....	11
7.11.3	Procedure.....	12
7.12	Resistance to blanching, distortion and crazing of polymer teeth.....	14
7.12.1	Sampling.....	14
7.12.2	Reagents and/or materials.....	14
7.12.3	Apparatus.....	14
7.12.4	Conditioning of test specimens.....	15
7.12.5	Procedure for exposure to monomer.....	15
7.12.6	Visual inspection.....	15
7.13	Colour stability of polymer teeth.....	15
7.13.1	General.....	15
7.13.2	Reagents and/or materials.....	15
7.13.3	Procedure.....	15
7.14	Dimensional stability of polymer teeth.....	15
7.14.1	Reagents and/or materials.....	15
7.14.2	Apparatus.....	16
7.14.3	Procedure.....	16
8	Marking, labelling, and information to be supplied by the manufacturer.....	16
8.1	Marking and labelling.....	16
8.2	Information to be supplied by manufacturer.....	16
8.2.1	Mould chart.....	16
8.2.2	Shade guide.....	17
8.3	Manufacturer's instructions for use.....	17
9	Packaging.....	17
	Bibliography.....	18

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.

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 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 *Prosthetic 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](#)).

Dentistry — Artificial teeth for dental prostheses

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