
Dentistry — Artificial teeth for dental prostheses

*Médecine bucco-dentaire — Dents artificielles pour prothèses
dentaires*

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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.

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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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 dental 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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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