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Dentistry — Brazing materials

Art dentaire — Produits pour brasage



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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.

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.

ISO 9333 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 2, *Prosthetic materials*.

This second edition cancels and replaces the first edition (ISO 9333:1990), subclauses 4.1 and 4.4 of which have been technically revised:

- a) in 4.1 by the introduction of upper limits for cadmium, beryllium and lead;
- b) in 4.4 by a reduction in the mechanical strength of a brazed joint;
- c) further, the requirement for flow temperature has been cancelled.

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Dentistry — Brazing materials

1 Scope

This International Standard specifies requirements and test methods for brazing materials suitable for use in metallic restorations.

2 Normative references

The following referenced documents are indispensable for the application 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 6344-1, *Coated abrasives — Grain size analysis — Part 1: Grain size distribution test*

ISO 7405, *Dentistry — Preclinical evaluation of biocompatibility of medical devices used in dentistry — Test methods for dental materials*

ISO 10271:2001, *Dental metallic materials — Corrosion test methods*

ISO 10993-1, *Biological evaluation of medical devices — Part 1: Evaluation and testing*

3 Terms and definitions

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

3.1

brazing material

alloy suitable for use as a filler material in operations in which dental alloy parts are joined by brazing to form dental appliances and restorations

3.2

noble metal

gold, platinum, palladium, ruthenium, iridium, osmium and rhodium

3.3

base metal

all metallic elements with the exception of noble metals and silver