



**SLOVENSKI STANDARD**  
**SIST EN ISO 9333:2006**

**01-september-2006**

**BUXca Yý U.**  
**SIST EN 29333:2000**

---

**Zobozdravstvo – Materiali za spajkanje (ISO 9333:2006)**

Dentistry - Brazing materials (ISO 9333:2006)

Zahnheilkunde - Hartlote (ISO 9333:2006)

Art dentaire - Produits pour brasage (ISO 9333:2006)

[SIST EN ISO 9333:2006](https://standards.iteh.ai/catalog/standards/sist/3d9a9e15-90f5-4875-8d32-100000000000/standards/sist/2006/sist-en-9333-2006)

<https://standards.iteh.ai/catalog/standards/sist/3d9a9e15-90f5-4875-8d32-100000000000/standards/sist/2006/sist-en-9333-2006>

**Ta slovenski standard je istoveten z: EN ISO 9333:2006**

---

**ICS:**

11.060.10 Z[ à[ c @ ã } ã æ ã ã Dental materials

**SIST EN ISO 9333:2006** en

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN ISO 9333:2006](https://standards.iteh.ai/catalog/standards/sist/3d9a9e15-90f5-4875-8d32-43fa91851fc6/sist-en-iso-9333-2006)

<https://standards.iteh.ai/catalog/standards/sist/3d9a9e15-90f5-4875-8d32-43fa91851fc6/sist-en-iso-9333-2006>

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 9333**

July 2006

ICS 11.060.10

Supersedes EN 29333:1991

English Version

## Dentistry - Brazing materials (ISO 9333:2006)

Art dentaire - Produits pour brasage (ISO 9333:2006)

Zahnheilkunde - Hartlote (ISO 9333:2006)

This European Standard was approved by CEN on 14 July 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

(standards.iteh.ai)

SIST EN ISO 9333:2006

<https://standards.iteh.ai/catalog/standards/sist/3d9a9e15-90f5-4875-8d32-43fa91851fc6/sist-en-iso-9333-2006>



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

**EN ISO 9333:2006 (E)****Foreword**

This document (EN ISO 9333:2006) 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 January 2007, and conflicting national standards shall be withdrawn at the latest by January 2007.

This document supersedes EN 29333:1991.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

**Endorsement notice**

The text of ISO 9333:2006 has been approved by CEN as EN ISO 9333:2006 without any modifications.

**(standards.iteh.ai)**

SIST EN ISO 9333:2006

<https://standards.iteh.ai/catalog/standards/sist/3d9a9e15-90f5-4875-8d32-43fa91851fc6/sist-en-iso-9333-2006>

INTERNATIONAL  
STANDARD

ISO  
9333

Second edition  
2006-07-15

---

---

**Dentistry — Brazing materials**

*Art dentaire — Produits pour brasage*

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN ISO 9333:2006](https://standards.iteh.ai/catalog/standards/sist/3d9a9e15-90f5-4875-8d32-43fa91851fc6/sist-en-iso-9333-2006)

<https://standards.iteh.ai/catalog/standards/sist/3d9a9e15-90f5-4875-8d32-43fa91851fc6/sist-en-iso-9333-2006>



Reference number  
ISO 9333:2006(E)

© ISO 2006

## ISO 9333:2006(E)

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 9333:2006](https://standards.iteh.ai/catalog/standards/sist/3d9a9e15-90f5-4875-8d32-43fa91851fc6/sist-en-iso-9333-2006)

<https://standards.iteh.ai/catalog/standards/sist/3d9a9e15-90f5-4875-8d32-43fa91851fc6/sist-en-iso-9333-2006>

© ISO 2006

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

## 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.

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN ISO 9333:2006](#)

<https://standards.iteh.ai/catalog/standards/sist/3d9a9e15-90f5-4875-8d32-43fa91851fc6/sist-en-iso-9333-2006>



# 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*

<https://standards.iteh.ai/catalog/standards/sist/3d9a9e15-90f5-4875-8d32-43fa91851fc6/sist-en-iso-9333-2006>

## 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