



SLOVENSKI STANDARD
SIST EN ISO 3107:2005
01-marec-2005

Zobozdravstvo - Cementi iz cinkovega oksida/eugenola in cinkovega oksida brez eugenola (ISO 3107:2004)

Dentistry - Zinc oxide/eugenol and zinc oxide/non-eugenol cements (ISO 3107:2004)

Zahnheilkunde - Zinkoxideugenolzemente und eugenolfreie Zinkoxidzemente (ISO 3107:2004)

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Art dentaire - Ciments dentaires à base d'oxyde de zinc-eugénol et à base d'oxyde de zinc sans eugénol (ISO 3107:2004)

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Ta slovenski standard je istoveten z: EN ISO 3107:2004

ICS:

11.060.10 Zl [c @ ã } ã æ ! ã ã Dental materials

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 3107

October 2004

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Supersedes EN 23107:1991

English version

Dentistry - Zinc oxide/eugenol and zinc oxide/non-eugenol cements (ISO 3107:2004)

Art dentaire - Ciments dentaires à base d'oxyde de zinc-eugénol et à base d'oxyde de zinc sans eugénol (ISO 3107:2004)

Zahnheilkunde - Zinkoxideugenolzemente und eugenolfreie Zinkoxidzemente (ISO 3107:2004)

This European Standard was approved by CEN on 23 September 2004.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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EN ISO 3107:2004 (E)**Foreword**

This document (EN ISO 3107:2004) 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 April 2005, and conflicting national standards shall be withdrawn at the latest by April 2005.

This document supersedes EN 23107:1991.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 3107:2004 has been approved by CEN as EN ISO 3107:2004 without any modifications.

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INTERNATIONAL
STANDARD

ISO
3107

Third edition
2004-10-01

**Dentistry — Zinc oxide/eugenol and zinc
oxide/non-eugenol cements**

*Art dentaire — Ciments dentaires à base d'oxyde de zinc-eugénol et à
base d'oxyde de zinc sans eugénol*

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ISO 3107:2004(E)**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 3107 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 1, *Filling and restorative materials*.

This third edition cancels and replaces the second edition (ISO 3107:1988), which has been technically revised, including extensive revision and simplification of the classification system, and removal of the disintegration limit as a requirement for temporary cements.

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Introduction

Specific qualitative and quantitative requirements for freedom from biological hazard are not included in this International Standard, but it is recommended that, in assessing possible biological or toxicological hazards, reference be made to ISO 10993-1 and ISO 7405.

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Dentistry — Zinc oxide/eugenol and zinc oxide/non-eugenol cements

1 Scope

This International Standard specifies the requirements and performance test methods for non-water-based zinc oxide/eugenol cements suitable for use in restorative dentistry for temporary cementation, for permanent cementation, for cavity liners and bases and as temporary restorations.

This International Standard is also applicable to non-eugenol cements containing zinc oxide and aromatic oils suitable for temporary cementation.

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 2590, *General method for the determination of arsenic — Silver diethyldithiocarbamate photometric method*

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ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods*

ISO 8601, *Data elements and interchange formats — Information interchange — Representation of dates and times*

3 Classification

For the purposes of this document, the following classification for cements is used, based on their intended use:

- a) Type I: for temporary cementation;
 - 1) Class 1: setting cement;
 - 2) Class 2: non-setting cement.
- b) Type II: for permanent cementation;
- c) Type III: for bases and temporary restorations;
- d) Type IV: for cavity liners.