

Stomatoloogia. Meditsiinivahendid stomatoloogias. Materjalid

Dentistry - Medical devices for dentistry - Materials

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1641:2004 sisaldab Euroopa standardi EN 1641:2004 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 23.09.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1641:2004 consists of the English text of the European standard EN 1641:2004.</p> <p>This document is endorsed on 23.09.2004 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This European Standard specifies general requirements for materials used in the practice of dentistry for the restoration of the form and function of the dentition and which are medical devices. For the purposes of this standard these materials are defined as restorative materials. Dental implants are specifically excluded and described in EN 1642. This standard includes requirements for intended performance, design attributes, components, sterilization, packaging, marking, labelling, and information supplied by the manufacturer.</p>	<p>Scope:</p> <p>This European Standard specifies general requirements for materials used in the practice of dentistry for the restoration of the form and function of the dentition and which are medical devices. For the purposes of this standard these materials are defined as restorative materials. Dental implants are specifically excluded and described in EN 1642. This standard includes requirements for intended performance, design attributes, components, sterilization, packaging, marking, labelling, and information supplied by the manufacturer.</p>
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Võtmesõnad:

English version

Dentistry - Medical devices for dentistry - Materials

Art dentaire - Dispositifs médicaux pour l'art dentaire -
Produits

Zahnheilkunde - Medizinprodukte für die Zahnheilkunde -
Werkstoffe

This European Standard was approved by CEN on 17 March 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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Contents

	page
Foreword.....	3
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Requirements	7
4.1 General.....	7
4.2 Chemical and physical properties	7
4.2.1 Composition	7
4.2.2 Biocompatibility	7
4.2.3 Material properties	7
4.3 Control of contamination	7
4.4 Restorative materials used in combination	7
4.5 Clinical investigation	7
4.6 Marking, labelling and information supplied by the manufacturer	8
4.6.1 General.....	8
4.6.2 Symbols	8
4.6.3 Labelling	8
4.6.4 Instructions for use	8
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 93/42/EEC	10
Bibliography	11

Foreword

This document (EN 1641:2004) has been prepared by 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 December 2004, and conflicting national standards shall be withdrawn at the latest by December 2004.

This document supersedes EN 1641:1996.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 93/42/EEC..

For relationship with EU Directive 93/42/EEC, see informative annex ZA, which is an integral part of this document.

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.

Introduction

There are three levels of European Standards dealing with medical devices used in dentistry. These are as follows:

- Level 1: General requirements for medical devices;
- Level 2: Particular requirements for families of medical devices used in dentistry;
- Level 3: Specific requirements for types of medical devices used in dentistry.

There are no level 1 standards written exclusively in respect of medical devices used in dentistry.

This standard is a level 2 standard and details requirements that apply to those materials used in the practice of dentistry for the restoration of the form and function of the dentition (for dental implants see EN 1642). It is also indicated that there are additional requirements in the level 3 standards. Where available, these are included as normative references. To cover all the requirements for a particular product, it is necessary to use a standard of the lowest available level.

The manufacturer will need to consider whether:

- 1) The material incorporates, as an integral part, a substance which, if used separately, may be considered to be a medicinal product as defined in Article 1 of Directive 2001/83/EEC [2], and whose action in combination with the material can result in its bioavailability. Directive 2001/83/EEC specifies the appropriate methods for assessing the safety, quality and usefulness of that substance.
- 2) The material includes a constituent which may be classified as a hazardous substance according to the Dangerous Substances Directive 67/548/EEC [3], as amended by the Dangerous Preparations Directive 1999/45/EC [4]. Attention is drawn to the labelling requirements of these Directives where the hazardous constituent content is above certain concentration limits.

In the Bibliography a reference for guidance on the classification of dental devices and accessories [5] is given.

1 Scope

This European Standard specifies general requirements for materials used in the practice of dentistry for the restoration of the form and function of the dentition and which are medical devices. For the purposes of this standard these materials are defined as restorative materials. Dental implants are specifically excluded and described in EN 1642. This standard includes requirements for intended performance, design attributes, components, sterilization, packaging, marking, labelling, and information supplied by the manufacturer.

Tests for demonstrating compliance with this standard are contained in the level 3 standards, if appropriate.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 980, *Graphical symbols for use in the labelling of medical devices*.

EN 1041, *Information supplied by the manufacturer with medical devices*.

EN 21560, *Dentistry — Dental mercury*.

EN 21563, *Alginate dental impression material (ISO 1563:1990)*.

EN 21942-1, *Dental vocabulary — Part 1: General and clinical terms*.

EN 21942-2, *Dental vocabulary — Part 2: Dental materials (ISO 1942-2:1989)*.

EN 23107, *Dental zinc oxide/eugenol cements and zinc oxide non-eugenol cements (ISO 3107:1988)*.

EN 26874, *Dental resin-based pit and fissure sealants (ISO 6874:1988)*.

EN 28601, *Data elements and interchange formats — Information interchange — Representation of dates and times (ISO 8601:1988 and its technical corrigendum 1:1991)*.

EN 29333, *Dental brazing materials (ISO 9333:1990)*.

EN 30139-1, *Dentistry — Resilient lining materials removable dentures — Part 1: Short-term materials (ISO 10139-1:1991)*.

EN ISO 1559, *Dental materials - Alloys for dental amalgam (ISO 1559:1995 + Technical Corrigendum 1:1997)*.

EN ISO 1561, *Dental casting wax (ISO 1561:1995)*.

EN ISO 1562, *Dental casting gold alloys (ISO 1562:1993)*.

EN ISO 1564, *Dental aqueous impression materials based on agar (ISO 1564:1995)*.

EN ISO 1567, *Dentistry — Denture base polymers (ISO 1567:1999)*.

EN ISO 1942-5, *Dental vocabulary — Part 5: Terms associated with testing (ISO 1942-5:1989)*.

EN ISO 3336, *Dentistry — Synthetic polymer teeth (ISO 3336:1993)*.

EN ISO 4049, *Dentistry — Polymer-based filling, restorative and luting materials (ISO 4049:2000)*.

EN ISO 4823, *Dentistry — Elastomeric impression materials (ISO 4823:2000)*

EN ISO 4824, *Dentistry — Ceramic denture teeth (ISO 4824:1993)*.

EN ISO 6871-1, *Dental base metal casting alloys — Part 1: Cobalt-based alloys (ISO 6871-1:1994)*.

EN ISO 6872, *Dental ceramic (ISO 6872:1995)*.

EN ISO 6873, *Dental gypsum products (ISO 6873:1998)*.

EN ISO 6876, *Dental root canal sealing materials (ISO 6876:2001)*

EN ISO 6877, *Dental root-canal obturating points (ISO 6877:1995)*.

EN ISO 7405, *Dentistry — Preclinical evaluation of biocompatibility of medical devices used in dentistry — Test methods for dental materials (ISO 7405:1997)*.

EN ISO 7491, *Dental materials — Determination of colour stability (ISO 7491:2000)*.

EN ISO 7551, *Dental absorbent points (ISO 7551:1996)*.

EN ISO 8891, *Dental casting alloys with noble metal content of at least 25 % but less than 75 % (ISO 8891:1998)*.

EN ISO 9693, *Metal-ceramic dental restorative systems (ISO 9693:1999)*.

EN ISO 9917-2, *Dental water-based cements — Part 2: Light activated cements (ISO 9917-2:1998)*.

EN ISO 10139-2, *Dentistry — Soft lining materials for removable dentures — Part 2: Materials for long-term use (ISO 10139-2:1999)*.

EN ISO 10271, *Dental metallic materials — Corrosion test methods (ISO 10271:2001)*.

EN ISO 10477, *Dentistry — Polymer-based crown and bridge materials (ISO 10477:1992)*.

EN ISO 10993-1, *Biological evaluation of medical devices — Part 1: Evaluation and testing (ISO 10993-1:2003)*.

EN ISO 12163, *Dental baseplate/modelling wax (ISO 12163:1999)*.

EN ISO 13716, *Dentistry — Reversible-irreversible hydrocolloid impression material systems (ISO 13716:1999)*.

EN ISO 14155-1, *Clinical investigation of medical devices for human subjects — Part 1: General requirements (ISO 14155-1:2003)*.

EN ISO 14155-2, *Clinical investigations of medical devices for human subjects — Part 2: Clinical investigation plans (ISO 14155-2:2003)*.

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 21942-1, EN 21942-2, EN ISO 1942-5 and the following apply.

3.1 restorative material

material used in restorative dentistry including, for example, impression and other materials used transiently in the mouth, denture teeth and denture base resins, casting alloys, filling and lining materials