



# SLOVENSKI STANDARD SIST EN ISO 6874:2015

01-december-2015

Nadomešča:  
SIST EN ISO 6874:2005

---

**Zobozdravstvo - Tesnilna sredstva na osnovi polimerov za otiske in razpoke (ISO 6874:2015)**

Dentistry - Polymer-based pit and fissure sealants (ISO 6874:2015)

Zahnheilkunde - Versiegelungskunststoffe für Grübchen und Fissuren (ISO 6874:2015)

Médecine bucco-dentaire - Produits dentaires à base de polymères pour comblement des puits et fissures (ISO 6874:2015)

[SIST EN ISO 6874:2015](https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-171e90/sist-en-iso-6874-2015)

<https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-171e90/sist-en-iso-6874-2015>

**Ta slovenski standard je istoveten z: EN ISO 6874:2015**

---

**ICS:**

11.060.10      Zobotehnični materiali      Dental materials

**SIST EN ISO 6874:2015**      en

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

[SIST EN ISO 6874:2015](https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-f73bf475be90/sist-en-iso-6874-2015)

<https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-f73bf475be90/sist-en-iso-6874-2015>

EUROPEAN STANDARD

EN ISO 6874

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2015

ICS 11.060.10

Supersedes EN ISO 6874:2005

English Version

## Dentistry - Polymer-based pit and fissure sealants (ISO 6874:2015)

Médecine bucco-dentaire - Produits dentaires à base de polymères pour comblement des puits et fissures (ISO 6874:2015)

Zahnheilkunde - Versiegelungskunststoffe für Grübchen und Fissuren (ISO 6874:2015)

This European Standard was approved by CEN on 10 July 2015.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

<b>Contents</b>	<b>Page</b>
<b>European foreword.....</b>	<b>3</b>

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

[SIST EN ISO 6874:2015](https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-f73bf475be90/sist-en-iso-6874-2015)  
<https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-f73bf475be90/sist-en-iso-6874-2015>

## European foreword

This document (EN ISO 6874:2015) 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 March 2016, and conflicting national standards shall be withdrawn at the latest by March 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 6874:2005.

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

Full STANDARD PREVIEW

(standard.itech.ai)  
Endorsement notice

The text of ISO 6874:2015 has been approved by CEN as EN ISO 6874:2015 without any modification.

<https://standards.itech.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-f73bf475be90/sist-en-iso-6874-2015>

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

[SIST EN ISO 6874:2015](https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-f73bf475be90/sist-en-iso-6874-2015)

<https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-f73bf475be90/sist-en-iso-6874-2015>

INTERNATIONAL  
STANDARD

ISO  
6874

Third edition  
2015-09-01

---

---

**Dentistry — Polymer-based pit and  
fissure sealants**

*Médecine bucco-dentaire — Produits dentaires à base de polymères  
pour comblement des puits et fissures*

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

[SIST EN ISO 6874:2015](https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-f73bf475be90/sist-en-iso-6874-2015)

[https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-  
f73bf475be90/sist-en-iso-6874-2015](https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-f73bf475be90/sist-en-iso-6874-2015)



Reference number  
ISO 6874:2015(E)

© ISO 2015

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

SIST EN ISO 6874:2015

<https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-f73bf475be90/sist-en-iso-6874-2015>



### **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org



<b>Contents</b>		Page
<b>Foreword</b> .....		<b>iv</b>
<b>Introduction</b> .....		<b>v</b>
<b>1 Scope</b> .....		<b>1</b>
<b>2 Normative references</b> .....		<b>1</b>
<b>3 Classification</b> .....		<b>1</b>
<b>4 Requirements</b> .....		<b>1</b>
4.1 Biocompatibility.....		1
4.2 Physical properties.....		1
4.2.1 Working time, Class 1 sealant.....		1
4.2.2 Setting time, Class 1 sealant.....		1
4.2.3 Depth of cure, Class 2 sealant.....		1
<b>5 Sampling</b> .....		<b>2</b>
<b>6 Test methods</b> .....		<b>2</b>
6.1 Inspection.....		2
6.2 Test conditions.....		2
6.3 Preparation of test specimens.....		2
6.4 Working time, Class 1 sealant.....		2
6.4.1 Apparatus.....		2
6.4.2 Procedure.....		4
6.4.3 Treatment of results.....		4
6.5 Setting time, Class 1 sealant.....		5
6.5.1 Apparatus.....		5
6.5.2 Procedure.....		5
6.5.3 Treatment of results.....		5
6.6 Depth of cure, Class 2 sealant.....		6
6.6.1 Apparatus.....		6
6.6.2 Procedure.....		6
6.6.3 Treatment of results.....		6
<b>7 Packaging, marking and instructions and information to be supplied by the manufacturer</b> .....		<b>6</b>
7.1 Packaging.....		7
7.2 Marking.....		7
7.2.1 Capsule or single dose container.....		7
7.2.2 Outer pack.....		7
7.3 Manufacturer's instructions and information for the user.....		7
<b>Bibliography</b> .....		<b>9</b>

## ISO 6874:2015(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.

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](http://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](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 106, *Dentistry*, Subcommittee SC1, *Filling and restorative materials*.

This third edition cancels and replaces the second edition (ISO 6874:2005), of which it constitutes a minor revision.

## Introduction

The efficacy of pit and fissure sealants for the prevention of dental caries is widely accepted. The polymer-based materials intended for this purpose and covered by this International Standard harden by a free-radical polymerisation reaction that is either initiated by mixing components or by external energy, e.g. visible light.

Specific qualitative and quantitative requirements for freedom from biological hazard are not included in this International Standard but, when assessing possible biological hazards, reference can be made to ISO 10993 (all parts) and ISO 7405.

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

[SIST EN ISO 6874:2015](https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-f73bf475be90/sist-en-iso-6874-2015)

<https://standards.iteh.ai/catalog/standards/sist/b9b858cd-e011-4f51-9cd0-f73bf475be90/sist-en-iso-6874-2015>