



**SLOVENSKI STANDARD**  
**SIST EN 26874:2000**  
**01-januar-2000**

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**Dental resin-based pit and fissure sealants (ISO 6874:1988)**

Dental resin-based pit and fissure sealants (ISO 6874:1988)

Zahnheilkunde - Versiegelungskunststoffe für Fissuren (ISO 6874:1988)

Produits dentaires a base de résine pour comblement des puits et fissures (ISO 6874:1988)

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**Ta slovenski standard je istoveten z: EN 26874:1992**

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**ICS:**

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**SIST EN 26874:2000**

**en**

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EUROPEAN STANDARD

EN 26874:1992

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1992

UDC 615.461-036.6:616.314:620.1

Descriptors: Dentistry, dental materials, resins, classifications, specifications, physical properties, tests, packing, marking

English version

### Dental resin-based pit and fissure sealants (ISO 6874:1988)

Produits dentaires à base de résine pour comblement des puits et fissures (ISO 6874:1988) Zahnheilkunde - Versiegelungskunststoffe für Fissuren (ISO 6874:1988)

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This European Standard was approved by CEN on 1992-08-10. 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.

The European Standards exist 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

## CEN

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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### Foreword

This European Standard is the endorsement of ISO 6874. Endorsement of ISO 6874 was recommended by CEN/Technical Committee 55 "Dental products" under whose competence this European Standard will henceforth fall.

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 1993-02, and conflicting national standards shall be withdrawn at the latest by 1993-02.

The Standard was approved and in accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

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Endorsement notice

The text of the International Standard ISO 6874:1988 was approved by CEN as a European Standard without any modification.

# INTERNATIONAL STANDARD

ISO  
6874

First edition  
1988-11-15



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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION  
ORGANISATION INTERNATIONALE DE NORMALISATION  
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

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## Dental resin-based pit and fissure sealants

*Produits dentaires à base de résine pour comblement des puits et fissures*

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## ISO 6874 : 1988 (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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 6874 was prepared by Technical Committee ISO/TC 106, *Dentistry*.

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## Introduction

The efficacy of pit and fissure sealant materials for the prevention of dental caries is now widely accepted. The resin-based materials harden by free radical polymerization and protect teeth from the formation of caries in the pits and fissures.

Specific qualitative and quantitative requirements for freedom from biological hazard are not included in this International Standard, but it is recommended that reference should be made to ISO/TR 7405 : 1984, *Biological evaluation of dental materials* when assessing possible biological or toxicological hazards.

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# Dental resin-based pit and fissure sealants

## 1 Scope

This International Standard specifies requirements and test methods for resin-based materials suitable for sealing pits and fissures in teeth.

This International Standard covers both chemically cured and external-energy-cured materials.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2014 : 1976, *Writing of calendar dates in all-numeric form*.

ISO 7491 : 1985, *Dental materials — Determination of colour stability of dental polymeric materials*.

## 3 Classification

For the purposes of this International Standard, resin-based pit and fissure sealants are classified, according to the method of curing, as follows:

**Type 1:** Chemically cured

**Type 2:** External-energy-cured

## 4 Requirements

### 4.1 General

Sealants shall consist of one or more liquids, or of a combination of liquids and powders or pastes that, when mixed or activated in accordance with the manufacturer's instructions, fulfil the requirements laid down in 4.2, 4.3 and 4.4.

### 4.2 Condition of components

The components, when handled in accordance with the manufacturer's instructions [see 8.3c)], shall be of uniform consistency and colour, and shall be free from extraneous matter when inspected (see 7.1).

### 4.3 Set sealant

#### 4.3.1 Appearance

The appearance of the set sealant shall be as described by the manufacturer [see 8.3a)] when inspected (see 7.1).

### 4.4 Physical properties

#### 4.4.1 Working time, type 1 sealant

The working time for type 1 sealants, determined in accordance with 7.2, shall not be less than that stated by the manufacturer [see 8.3d)] or 45 s, whichever is the greater.

#### 4.4.2 Setting time, type 1 sealant

The setting time for type 1 sealants, determined in accordance with 7.3, shall not differ by more than 30 s from that stated by the manufacturer [see 8.3 d)]; in no case shall it exceed 5 min.

#### 4.4.3 Sensitivity to ambient light, type 2 sealant

The time at which the onset of polymerization is detectable for type 2 sealants, determined in accordance with 7.4, shall be not less than 25 s.

#### 4.4.4 Curing time, type 2 sealant

The curing time (i.e. the exposure time required for application of the external source to cause complete setting) for type 2 sealants, determined in accordance with 7.5, shall not exceed that stated by the manufacturer or 60 s, whichever is the lesser.

#### 4.4.5 Depth of cure, type 2 sealant

The depth of cure for type 2 sealants, determined in accordance with 7.6, shall be not less than 1,5 mm.