



BSI Standards Publication

## Dentistry - Denture adhesives

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## National foreword

This British Standard is the UK implementation of EN ISO 10873:2021. It is identical to ISO 10873:2021. It supersedes BS EN ISO 10873:2010, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CH/106/7, Oral hygiene products.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Published by BSI Standards Limited 2021

ISBN 978 0 580 98928 5

ICS 11.060.10; 97.170

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2021.

### Amendments/corrigenda issued since publication

Date	Text affected
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EUROPEAN STANDARD

**EN ISO 10873**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2021

ICS 97.170

Supersedes EN ISO 10873:2010

English Version

**Dentistry - Denture adhesives (ISO 10873:2021)**Médecine bucco-dentaire - Adhésifs pour prothèses  
dentaires (ISO 10873:2021)Zahnheilkunde - Prothesenhaftmittel (ISO  
10873:2021)

This European Standard was approved by CEN on 6 May 2021.

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## European foreword

This document (EN ISO 10873:2021) 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of an identical text or by endorsement, at the latest by January 2022, and conflicting national standards shall be withdrawn at the latest by January 2022.

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

This document supersedes EN ISO 10873:2010.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN websites.

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## Endorsement notice

The text of ISO 10873:2021 has been approved by CEN as EN ISO 10873:2021 without any modification.

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## 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)).

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

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 7, *Oral care products*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 55, *Dentistry*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 10873:2010), which has been technically revised. The main changes compared to the previous edition are as follows:

- the powder/water ratio described in [7.5.3.1](#) and [7.6.3.1](#) has been revised;
- the method for pH value measurement has been modified in part;
- the surface roughness of the sample holder has been revised.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).



## Introduction

Denture adhesives are used for the improvement in retention stability of removable denture to soft supporting tissues temporarily. This document is intended to determine the physical and chemical properties of denture adhesives.

Specific qualitative and quantitative requirements for freedom from biological hazards are not included in this document.

It is recommended that, in assessing possible biological hazards, reference be made to ISO 7405 and ISO 10993-1.

# Dentistry — Denture adhesives

## 1 Scope

This document classifies denture adhesives used by wearers of removable dentures; it also specifies requirements, test methods and instructions to be supplied for the use of such products.

This document is applicable to denture adhesives for use by the consumer and excludes the dental lining materials prescribed or applied by dental professionals.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 3696:1987, *Water for analytical laboratory use — Specification and test methods*

ISO 7823-2, *Plastics — Poly(methyl methacrylate) sheets — Types, dimensions and characteristics — Part 2: Extruded sheets*

ISO 8601-1, *Date and time — Representations for information interchange — Part 1: Basic rules*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1942 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

### 3.1

#### **denture adhesive**

dental product placed on the intaglio surface of a removable denture to temporarily improve its retention to soft supporting tissues

Note 1 to entry: The intaglio surface is also known as the fitting surface.

[SOURCE: ISO 1942:2020, 3.3.1.23, modified — Note 1 to entry has been added.]

### 3.2

#### **glue type**

*denture adhesive* (3.1) in powder, cream, sheet or tape form with a water-soluble polymer as the adhesive constituent

### 3.3

#### **liner type**

*denture adhesive* (3.1) in non-aqueous form