

Irish Standard I.S. EN ISO 9873:2019

Dentistry - Intra-oral mirrors (ISO 9873:2019)

© CEN 2019 No copying without NSAI permission except as permitted by copyright law.

I.S. EN ISO 9873:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R.~xxx: Standard~Recommendation-recommendation~based~on~the~consensus~of~an~expert~panel~and~subject~to~public~consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

Published:

EN ISO 9873:2019

2019-05-08

This document was published under the authority of the NSAI and comes into effect on:

ICS number:

11.060.20

2019-05-26

NOTE: If blank see CEN/CENELEC cover page

Sales:

NSAI T +353 1 807 3800

1 Swift Square, F +353 1 807 3838

Northwood, Santry E standards@nsai.ie

Dublin 9 W NSAI.ie

T +353 1 857 6730 F +353 1 857 6729

W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

National Foreword

I.S. EN ISO 9873:2019 is the adopted Irish version of the European Document EN ISO 9873:2019, Dentistry - Intra-oral mirrors (ISO 9873:2019)

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This is a free page sample. Access the full version online.

This page is intentionally left blank

EUROPEAN STANDARD

EN ISO 9873

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2019

ICS 11.060.20

Supersedes EN ISO 9873:2017

English Version

Dentistry - Intra-oral mirrors (ISO 9873:2019)

Médecine bucco-dentaire - Miroirs endobuccaux (ISO 9873:2019)

Zahnheilkunde - Intraoralspiegel (ISO 9873:2019)

This European Standard was approved by CEN on 20 March 2019.

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, Serbia, 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: Rue de la Science 23, B-1040 Brussels

EN ISO 9873:2019 (E)

Contents	Pag	e
Euronean foreword		3

EN ISO 9873:2019 (E)

European foreword

This document (EN ISO 9873:2019) 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 November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.

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 9873:2017.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 9873:2019 has been approved by CEN as EN ISO 9873:2019 without any modification.

This is a free page sample. Access the full version online.

This page is intentionally left blank

This is a free page sample. Access the full version online. I.S. EN ISO 9873:2019

INTERNATIONAL STANDARD

ISO 9873

Fourth edition 2019-03

Dentistry — Intra-oral mirrors

Médecine bucco-dentaire — Miroirs endobuccaux



Reference number ISO 9873:2019(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2019

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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 CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Fax: +41 22 749 09 47 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Contents			Page		
Fore	eword		iv		
Introduction			v		
1		oe			
_	-				
2		Normative references			
3	Tern	ns and definitions	1		
4	Requ	uirements	2		
	4.1	Dimensions and designations	2		
		4.1.1 Overall length	2		
		4.1.2 Connection between the stem and handle, if applicable	3		
		4.1.3 Dimensions of mirror casing and viewing surface	3		
		4.1.4 Size designation of mirror head	3		
		4.1.5 Position of mirror head with respect to the stem	4		
	4.2	Materials	4		
		4.2.1 Mirror glass			
		4.2.2 Mirror casing			
		4.2.3 Mirror handle			
	4.3	Mirror head			
		4.3.1 Casing of mirror head			
		4.3.2 Reflecting surfaces			
		4.3.3 Nominal magnification			
		4.3.4 Distortion			
	4.4	Casing/stem joint strength			
	4.5	Handle			
	4.6	Resistance to reprocessing	6		
5	Mea	surement and test methods			
	5.1	Visual inspection	6		
	5.2	Resistance to reprocessing			
	5.3	Determination of nominal magnification for magnifying mirrors			
		5.3.1 Apparatus			
		5.3.2 Procedure			
	5.4	Distortion			
		5.4.1 Apparatus			
		5.4.2 Procedure			
	5.5	Casing/stem joint strength test			
		5.5.1 Apparatus			
		5.5.2 Procedure	9		
6	Mar	king and labelling			
	6.1	General			
	6.2	Marking on the mirror head			
	6.3	Marking on the mirror handle			
	6.4	Labelling on the package	10		
Bibl	iograpl	hy	11		

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).

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).

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.

This document was prepared by Technical Committee ISO/TC 106, *Denitsry*, Subcommittee SC 4, *Dental instruments*.

This fourth edition cancels and replaces the third edition (ISO 9873:2017), of which it constitutes a minor revision. The main changes compared to the previous edition are as follows:

- recommendation for maximum length of intra-oral mirror has been reduced from 178 mm to 173 mm in 4.1.1;
- requirement for distortion has been added in 4.3.4;
- requirement for handle has been clarified in 4.5;
- resistance to reprocessing requirement has been clarified in 4.6;
- requirement for UDI code has been added in <u>Clause 6</u>.

Introduction

This document specifies requirements for intra-oral viewing and retracting instruments which are in common use in dentistry.

However, it is well known that there are also other types of intra-oral mirrors in use which have different designs and/or are made of different materials. Amongst these other types are mirrors with a polished metal reflecting surface (as opposed to a coated glass surface).

Standardization of these other types can form the subject of future work.

Dentistry — Intra-oral mirrors

1 Scope

This document specifies requirements and test methods for reusable intra-oral mirrors with a coated glass reflecting surface used for dental purposes in the oral cavity.

In addition, specific requirements for metallic casing and metallic handles are given.

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 263, ISO inch screw threads — General plan and selection for screws, bolts and nuts — Diameter range 0,06 to 6 inch

ISO 724, ISO general-purpose metric screw threads — Basic dimensions

ISO 965-1, ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data

ISO 1942, Dentistry — Vocabulary

ISO 5864, ISO inch screw threads — Allowances and tolerances

ISO 17664, Processing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices

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

intra-oral mirror

mouth mirror

handheld dental instrument for intra-oral inspection or inspection and tissue retraction generally comprising the mirror head and the mirror handle

Note 1 to entry: See Figure 1.

3.2

mirror head

assembly comprising a glass reflective surface, casing, packing (if present) and stem

3.3

stem

part of the intra-oral mirror connecting the reflecting surface to the handle



Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation