
Reusable metal dental mirrors and handles (ISO 9873:1990)

Reusable metal dental mirrors and handles (ISO 9873:1990)

Wiederverwendbare Metallmundspiegel und Griffe in der Zahnheilkunde (ISO 9873:1990)

Miroirs et manches de miroirs dentaires métalliques réutilisables (ISO 9873:1990)

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ICS:

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English version

Reusable metal dental mirrors and handles
(ISO 9873:1990)

Miroirs et manches de miroirs dentaires (ISO 9873:1990) Wiederverwendbare Metallmundspiegel und Griffe in der Zahnheilkunde (ISO 9873:1990)

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 PREVZET PO METODI RAZGLASITVE

This European Standard was approved by CEN on 1994-01-14. 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 has been taken over by the Technical Committee CEN/TC 55 "Dentistry" from the work of ISO/TC 106 "Dentistry" of the International Organization for Standardization (ISO).

CEN/TC 55 decided to submit this document to the CEN members for voting by Unique Acceptance Procedure (UAP).

The result of the Unique Acceptance Procedure (UAP) was positive.

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of an identical text or by endorsement, at the latest by July 1994, and conflicting national standards shall be withdrawn at the latest by July 1994.

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 and United Kingdom.

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Endorsement notice

The text of the International Standard ISO 9873:1990 was approved by CEN as a European Standard without any modification.

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INTERNATIONAL STANDARD

**ISO
9873**

First edition
1990-08-15

Reusable metal dental mirrors and handles

Miroirs et manches de miroirs dentaires métalliques réutilisables

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Reference number
ISO 9873:1990(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 voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9873 was prepared by Technical Committee ISO/TC 106, *Dentistry*.

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Introduction

This International Standard specifies requirements for a type of dental viewing and retracting instrument in common use throughout the world. However it is well known that there are also other types of mirrors in use which have different designs and/or are made of different materials. Amongst these other types are mirrors with plastics cases and/or stems; mirrors with a polished metal reflecting surface (as opposed to a coated glass surface); mirrors with a cone socket design; and disposable mirrors. Standardization of these other types may form the subject of future work.

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Reusable metal dental mirrors and handles

1 Scope

This International Standard specifies requirements and tests for reusable mouth mirrors with a coated glass reflecting surface and metal casing and handle suitable for dental use in the oral cavity.

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 indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 261:1973, *ISO general purpose metric screw threads — General plan.*

ISO 7153-1:1983, *Instruments for surgery — Metallic materials — Part 1: Stainless steel.*

3 Definitions

For the purposes of this International Standard, the following definitions apply.

3.1 mirror: Assembled instrument comprising the mirror head and the mirror handle.

3.2 mirror head: Assembly comprising the mirror glass, reflecting surface, casing with packing (if present), and the threaded stem.

3.3 stem: That part of the mirror connecting the mirror head to the handle.

3.4 reflecting surface: Layer applied to the mirror glass for the purpose of reflecting light.

3.5 reflecting back surface: Reflecting layer coated onto the back surface of the mirror glass so that the image may be observed through the glass.

3.6 reflecting front surface: Reflecting layer coated onto the front surface of the mirror glass so that the image may be observed with no intervening glass layer.

3.7 plane mirror: Dental mirror whose reflecting surface is flat.

3.8 magnifying mirror: Dental mirror whose reflecting surface is concave to produce an enlarged image of the objects observed.

3.9 nominal magnification: Nominal magnification, M , is calculated from the following equation

$$M = \frac{250}{f}$$

where f is the focal length, in millimetres.

3.10 viewing surface: Surface of the mirror glass, excluding the bevel, not enclosed by the metal casing. (See figure 1, diameter d_2 .)

3.11 distortion: Image deformation due to optical defect(s).

4 Mirror heads

4.1 Material

4.1.1 Mirror glass

The mirror glass shall be made of polished glass free from visible defects such as waves, chips, scratches and other imperfections observable to the naked eye.

Test in accordance with 6.1.

The glass or front surface reflective coating shall show no blemish or other deterioration after having been tested.