



SLOVENSKI STANDARD SIST EN ISO 8282:2000

01-januar-2000

Dental equipment - Mercury and alloy mixers and dispensers (ISO 8282:1994)

Dental equipment - Mercury and alloy mixers and dispensers (ISO 8282:1994)

Zahnärztliche Ausrüstung - Mischgeräte und Dosierer für Quecksilber und Legierungen zur Herstellung von Amalgam (ISO 8282:1994)

Matériels dentaires - Mélangeurs et distributeurs de mercure et d'alliages (ISO 8282:1994)

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Ta slovenski standard je istoveten z: **EN ISO 8282:1997**
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ICS:

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EUROPEAN STANDARD

EN ISO 8282

NORME EUROPÉENNE

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March 1997

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Descriptors: see ISO document

English version

Dental equipment - Mercury and alloy mixers and dispensers (ISO 8282:1994)

Matériels dentaires
distributeurs de mercure et
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d'alliages

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This European Standard was approved by CEN on 1997-02-28. 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

The text of the International Standard from Technical Committee ISO/TC 106 "Dentistry" of the International Organization for Standardization (ISO) has been taken over as a European Standard by the 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 September 1997, and conflicting national standards shall be withdrawn at the latest by September 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of 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 the United Kingdom.

Endorsement notice

The text of the International Standard ISO 8282:1994 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 1560	1985	Dentistry - Dental mercury	EN 21560	1991

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INTERNATIONAL STANDARD

ISO
8282

First edition
1994-10-01

Dental equipment — Mercury and alloy mixers and dispensers

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*Matériels dentaires — Mélangeurs et distributeurs de mercure et
d'alliages*

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Reference number
ISO 8282:1994(E)

ISO 8282:1994(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 8282 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 6, *Dental equipment*.

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Dental equipment — Mercury and alloy mixers and dispensers

1 Scope

This International Standard specifies requirements and test methods for devices used for dispensing dental amalgam alloys and/or mercury. It includes the dispensing portion of devices which dispense the correct portions of alloy and mercury as well as mix the amalgam in a single, continuous operation.

It does not specify requirements and test methods for the efficacy of mixing.

Type 3

Category 1

Category 2

Category 3

Combination alloy/mercury dispensers

Alloy powder

Alloy tablet

Adjustable volume alloy and/or mercury

Type 4

Dispensing and mixing devices

4 Requirements

4.1 Construction

Dispensers shall not exhibit any defects such as cracks or missing adhesive which could lead to failure of the dispenser during normal usage resulting in a sudden release of mercury or alloy.

Dispensers shall be made of materials that do not react with or contaminate the alloy or mercury. No deterioration of the surface of the reservoir shall be visible after the test and no visible change in the alloy or mercury is acceptable.

Testing shall be in accordance with 6.1 and 6.2.

4.2 Adjustment

Adjustable dispensers shall be provided with a means of ensuring that the adjustment will not change during normal use.

Testing shall be in accordance with 6.1.

4.3 Mercury leakage

Mercury dispensers shall not exhibit a static leakage exceeding 1 mg.

NOTE 1 While 1 mg leakage is currently acceptable, the goal is to reach zero leakage in the near future.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was 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 edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1560:1985, *Dental mercury*.

3 Classification

Dispensers covered by this International Standard shall be classified as follows:

Type 1

Alloy dispensers

Category 1

Powder

Category 2

Tablet

Type 2

Mercury dispensers

Category 1

Fixed volume

Category 2

Adjustable volume