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STANDARD

8282

First edition
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Dental equipment — Mercury and alloy mixers and dispensers

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



Reference number
ISO 8282:1994(E)

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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.

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.

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

Type 3	Combination alloy/mercury dispensers
Category 1	Alloy powder
Category 2	Alloy tablet
Category 3	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.