
Dentistry — Dental amalgam

Médecine bucco-dentaire — Amalgame dentaire

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Published in Switzerland

Contents

	Page
Foreword	v
Introduction	vii
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Requirements	3
4.1 Chemical composition and purity of the dental amalgam alloy.....	3
4.2 Purity of the dental mercury.....	3
4.3 Foreign material and large particles in the dental amalgam alloy powder.....	3
4.4 Accuracy and variability of pre-proportioned masses.....	4
4.4.1 For dental mercury sachets.....	4
4.4.2 For dental amalgam alloy tablets.....	4
4.5 Properties of the dental amalgam.....	4
4.5.1 General.....	4
4.5.2 Creep.....	4
4.5.3 Dimensional changes during hardening.....	4
4.5.4 Compressive fracture stress at 2 h.....	4
4.5.5 Compressive fracture stress at 24 h.....	4
4.6 Appearance of the mixed dental amalgam before setting.....	4
4.7 Corrosion resistance of the dental amalgam.....	5
5 Sampling	5
6 Test methods	5
6.1 Chemical composition and purity of the dental amalgam alloy.....	5
6.1.1 Principle.....	5
6.1.2 Test sample.....	5
6.1.3 Apparatus.....	5
6.1.4 Procedure.....	5
6.1.5 Expression of results.....	5
6.1.6 Report.....	6
6.2 Purity of the dental mercury.....	6
6.2.1 Principle.....	6
6.2.2 Sample.....	6
6.2.3 Apparatus.....	6
6.2.4 Procedure.....	7
6.2.5 Expression of results.....	7
6.2.6 Report.....	7
6.3 Foreign material and large particles in the dental amalgam alloy powder.....	7
6.3.1 Principle.....	7
6.3.2 Test sample.....	7
6.3.3 Apparatus.....	8
6.3.4 Test procedure.....	8
6.3.5 Expression of the results.....	8
6.3.6 Report.....	9
6.4 Determination of the accuracy and variability of pre-proportioned masses.....	9
6.4.1 Principle.....	9
6.4.2 Test sample.....	9
6.4.3 Apparatus.....	9
6.4.4 Test procedure.....	9
6.4.5 Treatment of data.....	10
6.4.6 Report.....	10
6.5 Properties of the dental amalgam.....	11
6.5.1 Principle.....	11

6.5.2	Mould for the preparation of test-pieces for determining creep, dimensional change during hardening and compressive fracture stress.....	11
6.5.3	Sample.....	14
6.5.4	Test-piece production.....	14
6.5.5	Procedure for the determination of creep.....	16
6.5.6	Procedure for the determination of dimensional change during hardening.....	17
6.5.7	Procedure for the determination of compressive fracture stress.....	19
6.6	Appearance of the mixed dental amalgam before setting.....	20
6.6.1	Principle.....	20
6.6.2	Apparatus.....	20
6.6.3	Test procedure.....	21
6.6.4	Expression of the results.....	21
6.6.5	Report.....	22
6.7	Corrosion resistance of the dental amalgam.....	22
6.7.1	Principle.....	22
6.7.2	Sampling.....	22
6.7.3	Test procedure.....	23
6.7.4	Treatment of results.....	23
6.7.5	Report.....	23
7	Report.....	24
8	Marking and labelling.....	24
8.1	Information.....	24
8.1.1	General.....	24
8.1.2	Dental amalgam alloy products.....	24
8.1.3	Dental mercury.....	25
8.2	Labelling for a package containing dental mercury.....	25
8.3	Labelling of the outer surface of package or container used for shipping dental mercury.....	26
8.4	Manufacturer's instructions.....	26
8.5	Precautionary notes.....	26
Bibliography.....	ISO 24234:2021	27

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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).

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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, *Dentistry*, Subcommittee SC 1, *Filling and restorative materials*.

This third edition cancels and replaces the second edition (ISO 24234:2015), which has been technically revised.

The main changes compared to the previous edition are as follows.

- Pre-capsulated dental amalgam products have been removed from the scope of this document.
- A requirement for corrosion resistance has been added.
- In previous editions of this document, the presence of a limited number of foreign body particles in the dental amalgam alloy powder was permitted. Now, as a requirement, foreign body particles are not permitted to be present in the dental amalgam alloy powder.
- The roughness parameter used to specify the finish required on working surfaces of test-piece moulds has been changed from R_k to R_a .
- An instruction to lightly abrade the ends of the cylindrical test-pieces, if required for removing flash, has been deleted.
- The requirement for early compression strength has been altered. Measurement of the value is made at 2 h and not at 1 h.
- An additional four items of information have been added to each of the test reports.
- The edition number of the manufacturer's instructions and information, and the date of its introduction have been added as a requirement to the manufacturer's instructions.
- For each test method used to determine conformity to a requirement, a new subclause, "Principle", has been added in which a brief summary is present to explain the method adopted.