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Dentistry - Dental amalgam reusable mixing-capsules (ISO 13897:2018)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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Dentistry - Dental amalgam reusable mixing-capsules (ISO 13897:2018)

Médecine bucco-dentaire - Capsules de mélange réutilisables pour amalgame dentaire (ISO 13897:2018)

Zahnheilkunde - Wiederverwendbare Mischkapseln für zahnärztliches Amalgam (ISO 13897:2018)

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EN ISO 13897:2018 (E)

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European foreword

This document (EN ISO 13897:2018) 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of an identical text or by endorsement, at the latest by August 2018, and conflicting national standards shall be withdrawn at the latest by August 2018.

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The text of ISO 13897:2018 has been approved by CEN as EN ISO 13897:2018 without any modification.

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Dentistry — Dental amalgam reusable mixing-capsules

*Médecine bucco-dentaire — Capsules de mélange réutilisables pour
amalgame dentaire*



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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 on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 6, *Dental equipment*.

This second edition cancels and replaces the first edition (ISO 13897:2003) including Technical Corrigendum 1 (ISO 13897:2003/Cor.1:2003), which has been technically revised.

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

- the scope has been revised and is now restricted to dental amalgam reusable mixing-capsules;
- classification into two types has been deleted;
- labelling requirements have been updated.
- requirements for single-use capsules are now within the scope of ISO 20749:2017, these being:
 - the requirement for surface contamination of the package and the capsule for pre-capsulated dental amalgam alloy products;
 - loss of mass during mixing from single-use capsules;
 - the requirement for containers in which single-use capsules are supplied to prevent spillage of dental mercury leaking from faulty or damaged single-use capsules;
 - labelling requirements for pre-capsulated dental amalgam products;
 - manufacturer's instructions regarding conditions of storage and the disposal of single-use capsules in pre-capsulated dental amalgam products.

Introduction

In order to produce dental amalgam, an electrically-powered mixing machine, as described in ISO 7488 is used for mixing dental amalgam alloy powder with dental mercury. In addition, a removable mixing-capsule is used to contain the dental amalgam alloy and the dental mercury during the mixing process.

NOTE Traditionally, the mixing machine for dental amalgam has been called an amalgamator. The latter is now a deprecated term.

Dentistry — Dental amalgam reusable mixing-capsules

1 Scope

This document specifies the requirements for reusable mixing-capsules intended to contain dental amalgam alloy powder and dental mercury when these are mixed to produce dental amalgam, and the test methods used to determine conformity to these requirements.

NOTE ISO 7488 specifies requirements for mixing machines. The requirements for mixing-capsule are not dealt with in ISO 7488, although the mixing-capsule is an essential part of the mixing machine.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitute 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 1942, *Dentistry — Vocabulary*

ISO 7488, *Dentistry — Mixing machines for dental amalgam*

ISO 24234:2015, *Dentistry — Dental amalgam*

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