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## Dentistry — Amalgam capsules

*Art dentaire — Capsules pour amalgame*



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## Foreword

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The main task of technical committees is to prepare International Standards. 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.

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ISO 13897 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 6, *Dental equipment*.

## Introduction

In order to produce dental amalgam, electrically powered amalgamators as described in ISO 7488 are primarily used for mixing (trituration) of amalgam alloys with mercury. In many amalgamators, a removable capsule is used to contain the alloy and mercury. Although the capsule must be considered as part of the amalgamator when in use or under test, the requirements for capsules are not dealt with in ISO 7488. These requirements are the subject of this International Standard.

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# Dentistry — Amalgam capsules

## 1 Scope

This International Standard specifies requirements and test methods for predosed capsules and for reusable capsules used for mixing dental amalgam alloys and mercury.

## 2 Normative references

The following referenced documents are indispensable for the application 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 1559:1995, *Dental materials — Alloys for dental amalgam*

ISO 1560, *Dental mercury*

ISO 1942-2, *Dental vocabulary — Part 2 Dental materials*

ISO 7488:1991, *Dental amalgamators*

ISO 8601, *Data elements and interchange formats — Information interchange — Representation of dates and times*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1559, ISO 1942-2, ISO 7488 and the following apply.

### 3.1

#### **predosed capsule**

single-use capsule supplied containing separated measured amounts of alloy powder and mercury in such a way that premature contact is prevented

### 3.2

#### **self-activating capsule**

predosed capsule in which contact between the alloy powder and mercury occurs automatically during amalgamation

### 3.3

#### **activation**

action that renders the contained alloy powder and mercury mixable

## 4 Classification

Amalgam capsules covered by this International Standard shall be classified as follows, according to the reusability of the mixing capsule:

- Type 1: predosed mixing capsule
- Type 2: reusable mixing capsule