

SLOVENSKI STANDARD SIST EN ISO 7488:2000

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Dental amalgamators (ISO 7488:1991)

Dental amalgamators (ISO 7488:1991)

Zahnärztliche Amalgamatoren (ISO 7488:1991)

Amalgamateurs dentaires (ISO 7488:1991) ARD PREVIEW

Ta slovenski standard je istoveten z: EN ISO 7488:1995

<u>IST EN ISO 7488:2000</u>

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ICS:

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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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EN ISO 7488:1995

Foreword

The text of the International Standard from 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".

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of an identical text or by endorsement, at the latest by April 1996, and conflicting national standards shall be withdrawn at the latest by April 1996.

According to the CEN/CENELEC Internal Regulations, 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 7488:1991 has been approved by CEN as a European Standard without any modification. (Standards.iteh.ai)

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INTERNATIONAL STANDARD

ISO 7488

First edition 1991-06-01

Dental amalgamators

Amalgamateurs dentaires

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ISO 7488:1991(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 7488 was prepared by Technical Committee ISO/TC 106, Dentistry.

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ISO 7488:1991(E)

Introduction

Electrically powered amalgamators are machines used primarily for mixing (trituration) of amalgam alloys and mercury to produce dental amalgams but they may also be used for mixing other dental materials.

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 this International Standard; they may be the subject of a separate Standard.

Some amalgamators may incorporate a mechanism for dispensing the alloy or mercury or both. These devices may be subjected to the test in this International Standard except for the dispensing stage.

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Dental amalgamators

Scope

This International Standard specifies requirements, test methods to determine compliance with these requirements and details of marking of electrically powered mixing amalgamators suitable for mixing dental amalgam alloy and mercury for dental amalgams.

It provides methods of comparing uniformity of opand is intended to ensure reproducibility of amail. Amalgamators are classified as follows: eration and performance of these amalgamators gamation.

when the capsule is in its normal working or "activated" configuration.

3.3 amplitude of capsule motion: Range of movement, in millimetres, of the midpoint of the capsule while running, measured in the direction of the working length.

Classification

(standards.itelypei); Fixed frequency

Normative reference

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The following standard beontains provisions which dards/sist/11e9f6ff-1737-4bdb-b99 through reference in this text, constitute provisions en iso-5488 equirements 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.

IEC 335-1:1976, Safety of household and similar electrical appliances — Part 1: General requirements.

Definitions 3

For the purposes of this International Standard, the following definitions apply.

3.1 coherence: State when all the alloy and the mercury are combined in a single unified mass.

Small cracks or a dry looking surface do not detract from coherence.

3.2 working length of capsule: Maximum internal dimension lying parallel to the direction of the greatest motion or, where uniform circular motion applies, the greatest internal dimension parallel to a principal axis of the capsule in the plane of motion

Type 2: Variable frequency 11e9f6ff-1737-4bdb-b99c-

5.1 Electrical safety

Amalgamators shall comply as regards the electrical requirements and the testing with the relevant clauses of IEC 335-1.

NOTE 2 Compliance with IEC 335-1 is required pending development and publication of IEC requirements for laboratory and related equipment.

5.2 Mechanical safety

- 5.2.1 The amalgamator shall have an enclosure that will contain a capsule, its contents, or a machine part that may become dislodged or broken during use.
- 5.2.2 Moving parts with which the user may normally be expected to come into contact shall be free from rough or sharp edges and corners.
- 5.2.3 In addition, the following requirements shall apply.
- a) During normal operation, insertion, or removal, the capsule shall not be damaged in such a way as to allow leakage of mercury.