



# SLOVENSKI STANDARD

## SIST EN ISO 11143:2008

01-september-2008

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SIST EN ISO 11143:2000  
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Dental equipment - Amalgam separators (ISO 11143:2008)

Zahnärztliche Ausrüstung - Amalgamabscheider (ISO 11143:2008)

Matériel dentaire - Séparateurs d'amalgame (ISO 11143:2008)

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Ta slovenski standard je istoveten z: EN ISO 11143:2008

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### ICS:

11.060.20 Z[ à[ ¢@ã} æ] !^ { æ Dental equipment

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 11143**

July 2008

ICS 11.060.20

Supersedes EN ISO 11143:1999

English Version

**Dentistry - Amalgam separators (ISO 11143:2008)**

Art dentaire - Séparateurs d'amalgame (ISO 11143:2008)

Zahnheilkunde - Amalgamabscheider (ISO 11143:2008)

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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## Foreword

This document (EN ISO 11143:2008) 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of an identical text or by endorsement, at the latest by January 2009, and conflicting national standards shall be withdrawn at the latest by January 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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# INTERNATIONAL STANDARD

**ISO**  
**11143**

Second edition  
2008-07-01

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## Dentistry — Amalgam separators

*Art dentaire — Séparateurs d'amalgame*

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 11143 was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 6, *Dental equipment*.

This second edition cancels and replaces the first edition (ISO 11143:1999) which has been technically revised by means of the following changes:

- a) the description of the test method has been improved;
- b) testing at a minimum flow rate for certain types of separator is now required;
- c) updated labelling requirement has been introduced.

## Introduction

Amalgam separators are items of dental equipment designed to retain amalgam particles carried by the waste water from the dental treatment centre, so as to reduce the number of amalgam particles and therefore the mass of amalgam entering the sewage system.

Separation of the amalgam particles may be effected by the use of a centrifuge, sedimentation, filtration, or a combination of any of these methods.

It is recognised that the test sample used to assess the efficiency of an amalgam separator should have a particle size distribution which reflects the actual situation in dental treatment centres. The test sample used in this International Standard is based on investigations that have been carried out to determine the particle size distribution of amalgam particles in waste water from dental treatment centres (see Annex D).

The principle of the test is that the effluent water from the amalgam separator is collected in a vessel. The collected effluent water, containing amalgam particles not retained by the amalgam separator, is filtered through a series of preweighed filters. The filters, with the amalgam particles collected on them, are dried to a constant weight in a desiccator at room temperature and the total mass of collected particles is measured to determine the collection efficiency.

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