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Second edition
2018-04

Dentistry — Mixing machines for dental amalgam

Médecine bucco-dentaire — Mélangeurs pour amalgame dentaire



Reference number
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Foreword

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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 7488:1991), which has been technically revised.

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

- clarification of the scope;
- deletion of the classification (according to frequency);
- addition of the requirements for the maximum sound pressure level in 4.3;
- addition of measurement and test methods;

Introduction

The mixing performance requirement in this document is based on the concept of coherence time. This arises because it is not possible to define precisely just what constitutes a “clinically usable” mix, this being a subjective and vague value judgment. It is to be noted that the readily identifiable stage in the mixing process designated coherence is an intermediate stage and is an indication that satisfactory mixing is occurring. A “clinically usable” amalgam mix or other material mix cannot be obtained unless coherence is first achieved. A “clinically usable” mix generally requires mixing further to that required for coherence.

The scope is intended in due course to include machines for mixing material other than dental amalgam, such as cements. However, the relevant information is not yet to be available, and all mixing related references in this document are in respect of dental amalgam. The scope will be extended to include capsulated cements as soon as suitable data become available and consequential additions will be included in the requirements and test methods.