

ISO 7488:2018 (E)

Dentistry — Mixing machines for dental amalgam

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Requirements
4.1	Safety
4.1.1	Electrical
4.1.2	Mechanical
4.2	Stability
4.3	Sound pressure
4.4	Frequency
4.4.1	General
4.4.2	Variable-power machines
4.5	Amplitude
4.6	Mixing time
4.6.1	Timing device
4.6.2	Timing settings
4.7	Coherence time
4.8	Long-term test
5	Sampling
5.1	Mixing machine
5.2	Mixing-capsules
5.2.1	General
5.2.2	Mixing-capsule selection
5.2.2.1	Principle
5.2.2.2	Procedure
5.2.2.3	Selection criteria
5.3	Test components
6	Measurement and test methods
6.1	Test conditions
6.1.1	General
6.1.2	Reference charge mass, m_{ref}
6.1.3	Minimum charge mass, m_{min}
6.1.4	Maximum charge mass, m_{max}
6.1.5	Maximum running duration, t_{max}
6.1.6	Power supply conditions and apparatus
6.1.7	Equipment setup
6.2	Visual inspection
6.3	Sound pressure
6.3.1	Apparatus and setup
6.3.2	Procedure
6.3.3	Variable-power machines
6.4	Frequency tests
6.4.1	Measurement of mixing-capsule oscillation frequency
6.4.1.1	Apparatus
6.4.1.2	Procedure for fixed frequency mixing-machines
6.4.1.3	Procedure for variable-power mixing-machines

- 6.5 Working length
 - 6.5.1 Principle
 - 6.5.2 Apparatus
 - 6.5.3 Procedure
- 6.6 Amplitude
 - 6.6.1 Apparatus
 - 6.6.2 Procedure
- 6.7 Mixing time
 - 6.7.1 Apparatus
 - 6.7.2 Procedure
- 6.8 Coherence time
 - 6.8.1 Apparatus and materials
 - 6.8.2 Procedure
 - 6.8.2.1 Setting-up
 - 6.8.2.2 Determination of coherence time
- 6.9 Long-term test
- 7 Instructions for use
 - 7.1 General
 - 7.2 Identification
 - 7.3 Safety
 - 7.4 User maintenance
 - 7.5 Other maintenance
 - 7.6 Mixing-capsule requirements
 - 7.7 Mixing-capsule amplitude
 - 7.8 Operational limitations
 - 7.8.1 Mixing machine limitations
 - 7.8.2 Mass and frequency
- 8 Packaging
- 9 Marking
 - 9.1 On the mixing-machine
 - 9.2 On the packaging

Page count: 13