

ISO 11143:2008-07 (E)

Dentistry - Amalgam separators

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Classification	2
5	Requirements	3
5.1	Efficiency	3
5.2	Warning system for collecting container	3
5.3	Alarm system for collecting container	3
5.4	Alarm system for malfunction of amalgam separator	3
5.5	Removal of removable filled collecting container	3
5.6	Maximum fillable volume of the removable collecting container	4
5.7	Electrical safety	4
6	Sampling	4
7	Test apparatus	4
7.1	Set-up of test apparatus	4
7.2	Installation of amalgam separator	5
8	Test sample	7
8.1	Preparation of test sample	7
8.2	Particle fraction sizes	7
8.3	Mass of dry test sample	7
8.4	Particle fraction size distribution	7
8.5	Preparation of test slurry	9
8.5.1	Reagents	9
8.5.2	Apparatus	9
8.5.3	Procedure	9
9	Test method	10
9.1	General	10
9.2	Preconditioning	10
9.3	Efficiency test	10
9.4	Number of tests	13
9.5	Calculation of efficiency	13
9.6	Determination of efficiency	14
9.7	Test of warning system for removable collecting container	14
9.8	Test of alarm system for removable collecting container	14
9.9	Test of alarm system for malfunction of amalgam separator	14
9.10	Removal of filled collecting container	14
9.11	Maximum fillable volume of the removable collecting container	14
9.12	Electrical safety	14
10	Test report	15

11	Manufacturer's instructions for installation, use, maintenance and service	16
12	Marking	16
12.1	General	16
12.2	Marking of amalgam separator	17
12.3	Marking of liquid inlet and outlet of the amalgam separator	17
12.4	Marking of removable collecting container	17
Annex A (informative) Preparation of amalgam test sample		18
Annex B (informative) Procedure for grinding the hardened amalgam		21
Annex C (informative) Examination of particle fraction 3 using sedimentation with X-ray absorption		22
Annex D (informative) Particle fraction size distribution of amalgam in dental waste water		24
Bibliography		25