DIN EN ISO 23325:2020-12 (E)

Dentistry - Corrosion resistance of dental amalgam (ISO 23325:2020)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Sampling ... **8**

5 Requirement ... **8**

6 Preparation of the dental amalgam test-piece ... **9**
6.1 General ... 9
6.1.1 Temperature ... 9
6.1.2 Mixing ... 9
6.2 Apparatus for the preparation of the dental amalgam test-piece ... 9
6.3 Materials and tolerances for construction of the mould ... 9
6.4 Packing the mould, removal of test-piece and inspection for surface defects ... 10

7 Test solution (artificial saliva) ... **11**
7.1 Reagents ... 11
7.2 Stock solutions ... 12
7.2.1 Stock Solution A ... 12
7.2.2 Stock Solution B ... 12
7.2.3 Stock Solution C ... 12
7.3 Test solution ... 12

8 Procedure for test-piece conditioning ... **13**
8.1 Apparatus ... 13
8.2 Control test-pieces ... 13
8.3 Corrosion test-pieces ... 14
8.4 Replacement test-pieces ... 14

9 Mechanical testing ... **14**
9.1 Apparatus for mechanical testing ... 14
9.2 Procedure ... 15
9.2.1 Loading arrangement ... 15
9.2.2 Force application and fracture ... 16
9.3 Treatment of data ... 16

10 Test report ... **17**

Bibliography ... **18**