DIN EN ISO 7494-1:2018-10 (E)

Dentistry - Stationary dental units and dental patient chairs - Part 1: General requirements (ISO 7494-1:2018)

Contents

Page

European foreword ... **4**

Foreword ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **7**

4 Classification ... **7**

5 Requirements ... **7**

5.1 General requirements ... 7

5.1.1 Basic safety and essential performance ... 7

5.1.2 Controls and indicators ... 7

5.1.3 Function stop system ... 7

5.1.4 Usability ... 8

5.1.5 Cleaning and disinfection ... 8

5.1.6 Excessive temperatures ... 8

5.1.7 Biocompatibility ... 8

5.1.8 Solids filter ... 8

5.1.9 Amalgam separator device ... 8

5.1.10 Upholstery and padding ... 8

5.1.11 Air, water suction and waste water systems ... 9

5.2 Mechanical requirements ... 9

5.2.1 General mechanical requirements ... 9

5.2.2 Mechanical requirements for dental units ... 9

5.2.3 Mechanical requirements for dental patient chairs ... 10

5.3 Electrical requirements ... 11

5.3.1 General electrical requirements ... 11

5.3.2 Test points for periodic safety checks ... 11

5.3.3 Position limiting of dental patient chair ... 11

5.4 Test report ... 11

6 Sampling ... **11**

7 Testing ... **11**

7.1 Visual inspection ... 11

7.1.1 Visual inspection of device ... 11

7.1.2 Visual inspection of documentation or test reports ... 11

7.2 Mechanical tests ... 12

7.2.1 Measurement of solids filter ... 12

7.2.2 Pressure vessels and parts subject to pneumatic or hydraulic pressure ... 12

7.2.3 Headrest of dental patient chair ... 12

7.2.4 Armrest of dental patient chair ... 12

7.2.5 Vertical lift of dental patient chair ... 12

7.2.6 Tipping and stability of dental patient chair ... 12

7.3 Electrical tests ... 13

7.3.1 Position limiting of dental patient chair ... 13

7.3.2 Function stop system ... 13

8 Manufacturer's instructions **14**
8.1 General 14
8.2 Instructions for use 14
8.3 Technical description 14
9 Marking **15**
9.1 Product marking 15
9.2 Marking of packaging 15
10 Packaging **15**
Annex A (informative) **Example of a test report** **16**
Bibliography **22**