ISO 7494-1:2018 (E)

Dentistry — Stationary dental units and dental patient chairs — Part 1: General requirements

Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Classification

5 Requirements

- 5.1 General requirements
- 5.1.1 Basic safety and essential performance
- 5.1.2 Controls and indicators
- 5.1.3 Function stop system
- 5.1.4 Usability
- 5.1.5 Cleaning and disinfection
- 5.1.6 Excessive temperatures
- 5.1.7 Biocompatibility
- 5.1.8 Solids filter
- 5.1.9 Amalgam separator device
- 5.1.10 Upholstery and padding
- 5.1.10.1 Resistance to liquid absorption
- 5.1.10.2 Flammability
- 5.1.11 Air, water suction and waste water systems
- 5.2 Mechanical requirements
- 5.2.1 General mechanical requirements
- 5.2.1.1 Moving parts
- 5.2.1.2 Pressure vessels and parts subject to pneumatic or hydraulic pressure
- 5.2.1.3 Mechanical hazards associated with surfaces, corners and edges
- 5.2.1.4 Stability of support systems
- 5.2.2 Mechanical requirements for dental units
- 5.2.2.1 Handpiece hoses
- 5.2.3 Mechanical requirements for dental patient chairs
- 5.2.3.1 Maximum patient mass and static loading
- 5.2.3.2 Stability of headrest
- 5.2.3.3 Stability of armrests
- 5.2.3.4 Loading capacity and vertical lift
- 5.2.3.5 Tipping and stability
- 5.3 Electrical requirements
- 5.3.1 General electrical requirements
- 5.3.2 Test points for periodic safety checks
- 5.3.3 Position limiting of dental patient chair
- 5.4 Test report

6 Sampling

7 Testing

- 7.1 Visual inspection
- 7.1.1 Visual inspection of device
- 7.1.2 Visual inspection of documentation or test reports
- 7.2 Mechanical tests
- 7.2.1 Measurement of solids filter

7.2.2 Pressure vessels and parts subject to pneumatic or hydraulic pressure
7.2.3 Headrest of dental patient chair
7.2.4 Armrest of dental patient chair
7.2.5 Vertical lift of dental patient chair
7.2.6 Tipping and stability of dental patient chair
7.3 Electrical tests
7.3.1 Position limiting of dental patient chair
7.3.2 Function stop system

8 Manufacturer's instructions

8.1 General
8.2 Instructions for use
8.3 Technical description

9 Marking

9.1 Product marking
9.2 Marking of packaging

10 Packaging

Annex A (informative) Example of a test report

Page count: 18