ISO 3630-1:2019 (E)

Dentistry — Endodontic instruments — Part 1: General requirements

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

3.1 Terms and definitions
3.2 Symbols

4 Classification

5 Requirements

5.1 General
5.2 Type 1: Standard instruments
5.2.1 Length
5.2.2 Size designation and diameters
5.2.3 Colour designation
5.2.4 Tip shape
5.2.5 Tip length
5.3 Type 2: Taper instruments
5.3.1 Length
5.3.2 Tip shape
5.3.3 Size designation
5.3.4 Designation and diameters
5.3.5 Taper designation
5.3.6 Diameter colour identification
5.3.7 Taper colour and ring identification
5.4 Type 3: Non-taper instruments
5.4.1 Length
5.4.2 Size designation and diameters
5.4.3 Colour designation
5.5 Type 4: Non-uniform taper instruments
5.5.1 Length
5.5.2 Tip length and angle
5.5.3 Size designation
5.5.4 Diameter designation and diameters
5.5.5 Diameter colour identification
5.5.6 Taper colour and ring identification
5.6 Type 5: Shape instruments
5.6.1 Length
5.6.2 Size designation and diameters
5.6.3 Colour designation
5.7 Material
5.8 Dimensions
5.8.1 General
5.8.2 Length
5.8.3 Handle and shank
5.8.3.1 Handle
5.8.3.2 Shank
5.9 Mechanical requirements
5.9.1 Resistance to fracture by twisting and angular deflection
5.9.2 Stiffness (Resistance to bending)

5.9.3 Handle and shank security
5.10 Reprocessing

6 Sampling

7 Measurement and test methods

7.1 Visual inspection
7.2 Test conditions
7.3 Measurement of dimensions
7.3.1 Principle
7.3.2 Measuring device
7.3.3 Procedure
7.3.4 Taper calculation
7.4 Resistance to fracture by twisting and angular deflection
7.4.1 Principle
7.4.2 Apparatus
7.4.3 Procedure
7.4.4 Expression of results
7.5 Stiffness
7.5.1 Principle
7.5.2 Apparatus
7.5.3 Procedure
7.5.4 Expression of results
7.6 Handle or shank security
7.6.1 Principle
7.6.2 Apparatus
7.6.3 Preparation of test sample
7.6.4 Procedure
7.6.4.1 Axial movement
7.6.4.2 Twist strength
7.6.4.3 Expression of results
7.7 Resistance to reprocessing

8 Designation, marking and identification

8.1 General
8.2 Identification symbols

9 Packaging

10 Instructions for use

11 Labeling

Page count: 20