ISO 13017:2020 (E)

Dentistry — Magnetic attachments

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Requirements

4.1 Material
4.1.1 Magnet core
4.1.2 Components other than the magnet core
4.1.3 Reported chemical composition
4.2 Hazardous elements
4.2.1 Recognized hazardous elements
4.2.2 Permitted limits for the hazardous elements cadmium, beryllium and lead
4.2.3 Manufacturer's reported nickel content and permitted deviation
4.3 Risk analysis
4.4 Magnetic flux leakage
4.5 Retentive force
4.6 Corrosion resistance
4.6.1 Released ions
4.6.2 Breakdown potential

5 Preparation of test specimens

5.1 Retentive force
5.2 Static immersion test
5.3 Anodic polarization

6 Test methods

6.1 Information, instructions and marking
6.2 Magnetic flux leakage
6.2.1 Apparatus
6.2.2 Test procedure
6.3 Retentive force
6.3.1 Apparatus
6.3.2 Materials
6.3.3 Fixing procedure
6.3.4 Test procedure
6.3.5 Analysis
6.4 Corrosion resistance
6.4.1 Static immersion test
6.4.1.1 Reagents
6.4.1.2 Apparatus
6.4.1.3 Test solution
6.4.1.4 Test procedure
6.4.1.5 Treatment of results
6.4.2 Anodic polarization
6.4.2.1 Reagents
6.4.2.2 Apparatus
6.4.2.3 Test solution
6.4.2.4 Test procedure
6.4.2.5 Analysis

7 Information and instructions for use

8 Marking and labelling

8.1 Marking
8.2 Labelling