ISO 9693-2:2016-02 (E)

Dentistry - Compatibility testing - Part 2: Ceramic-ceramic systems

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Requirements 1
4.1 Biocompatibility 1
4.2 Physical properties 2
4.2.1 General 2
4.2.2 Thermal expansion 2
4.2.3 De-bonding/crack-initiation test (zirconia-porcelain only) 2
4.2.4 Thermal shock resistance 2

5 Sampling 2
5.1 Substructure dental ceramic 2
5.2 Dental porcelain 2

6 Test methods 2
6.1 Linear thermal expansion 2
6.2 Glass transition temperature 2
6.3 De-bonding/crack-initiation test (zirconia-porcelain only) 3
6.3.1 Preparation of test specimens 3
6.3.2 Determination of fracture force 3
6.3.3 Test report 5
6.4 Thermal shock testing 5
6.4.1 General 5
6.4.2 Thermocycling test with fixed temperature interval 5
6.4.3 Thermocycling test with increasing temperature interval 6

7 Test report 7

Bibliography 9