

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	Terms and definitions	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