ISO 14610:2012-08 (E)

Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for flexural strength of porous ceramics at room temperature

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Apparatus 2
4.1 Test apparatus 2
4.2 Four-point flexure fixture 2
4.3 Micrometer calliper 3
4.4 Dial gauge 3
4.5 Vernier calliper 3

5 Test piece 3
5.1 Test piece size 3
5.2 Test piece preparation 3
5.3 Number of test pieces 3

6 Testing method 4
6.1 Measurement of width and thickness of test piece 4
6.2 Distance between internal support points (internal span) and distance between external support points (external span) 4
6.3 Crosshead displacement speed and rupture force 4
6.4 Force-displacement curve 4

7 Calculation 4
7.1 Calculation of the flexural strength 4
7.2 Calculation of mean value and standard deviation 5

8 Test report 5