

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