

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