

ISO 17170:2015-12 (E)

Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for spherical indentation of porous ceramics

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Test specimens	2
4.1	Specimen size	2
4.2	Specimen preparation	2
4.3	Number of specimens	2
5	Testing machine and equipment	2
5.1	Testing machine	2
5.2	Spherical indenter	3
5.3	Pedestal	3
5.4	Micrometer calipers	3
5.5	Dial gauges	3
5.6	Humidity measuring device	3
6	Testing method	3
6.1	Measurement of specimen dimension	3
6.2	Specimen positioning and loading method	3
6.3	Crosshead speed	4
6.4	Measurement of load and load-point displacement	4
6.5	Reuse of pedestal	5
6.6	Measurement of temperature and humidity	5
6.7	Reuse of spherical indenter	5
6.8	Number of tests	5
7	Treatment of test result	5
7.1	Load vs. load-point displacement curve	5
7.2	Strength of spherical indentation	5
7.3	Calculation of mean value and standard variation	6
8	Test report	6
8.1	Items to be reported	6
8.2	Items preferred to be reported	6