

ISO 17562:2016-05 (E)

Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for linear thermal expansion of monolithic ceramics by pus h-rod technique

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Apparatus	2
6	Specimens	2
6.1	Test specimen	2
6.2	Reference specimen	3
7	Procedure	3
7.1	General	3
7.2	Procedure for a single-rod dilatometer	3
7.3	Procedure for a differential type dilatometer	4
8	Expected uncertainty level	4
9	Calculation of results	5
10	Calibration of apparatus	5
10.1	General	5
10.2	Calibration of the displacement measuring device	6
10.3	Calibration of the temperature measuring device	6
10.4	Measurement of base line variation	6
11	Test report	6
Annex A (normative) Reference data for thermal expansion		7
Annex B (normative) Method for deriving Formulae (1) and (2) for use with a single-rod type (or differential expansion type) instrument		9
Annex C (informative) Suitable apparatus for the dilatometric measurement		11
Bibliography		13