

ISO 17138:2025-11 (E)

Fine ceramics (advanced ceramics, advanced technical ceramics) - Mechanical properties of ceramic composites at room temperature - Determination of flexural strength

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Significance and use	2
5	Principle	2
6	Apparatus	2
6.1	Test machine	2
6.2	Test fixture	2
6.3	Data recording system	3
6.4	Dimension measuring devices	4
7	Test specimens	4
8	Test specimen preparation	4
8.1	Machining and preparation	4
8.2	Number of test specimens	5
9	Test procedures	5
9.1	Displacement rate	5
9.2	Measurement of dimensions	5
9.2.1	Test specimen dimensions	5
9.2.2	Distances between supporting rollers	5
9.3	Testing technique	5
9.3.1	Test specimen mounting	5
9.3.2	Measurements	6
9.4	Test validity	6
9.5	Calculation of results	6
9.5.1	General	6
9.5.2	Three-point bend	6
9.5.3	Four-point bend	7
10	Test report	7
Bibliography		8