

# DIN EN 843-1:2008-08 (E)

## Advanced technical ceramics - Mechanical properties of monolithic ceramics at room temperature - Part 1: Determination of flexural strength

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
1	Scope .....	4
2	Normative references .....	4
3	Terms and definitions .....	5
4	Significance and use .....	5
5	Apparatus .....	6
5.1	Test jig .....	6
5.2	Test machine .....	8
5.3	Micrometer or alternative calibrated device .....	8
5.4	Travelling microscope .....	8
5.5	Humidity measuring device .....	9
6	Test pieces .....	9
6.1	General .....	9
6.2	Dimensions and tolerances .....	9
6.3	Surface finish .....	10
6.4	Number of test pieces .....	13
6.5	Precautions .....	13
7	Procedure .....	13
8	Calculations .....	14
9	Test report .....	15
Annex A (informative) Typical fracture patterns in ceramic test pieces .....		17
Bibliography .....		20