

# ISO 28704:2011-08 (E)

## Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for cyclic bending fatigue of porous ceramics at room temperature

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Testing machine and equipment .....</b>	<b>3</b>
4.1	Testing machine .....	3
4.2	Loading precision .....	3
4.3	Test fixture .....	4
4.4	Micrometer callipers for measurement of external dimensions .....	4
4.5	Dial gauge .....	4
4.6	Vernier callipers .....	4
<b>5</b>	<b>Test piece .....</b>	<b>5</b>
5.1	Test piece size .....	5
5.2	Test piece preparation .....	5
<b>6</b>	<b>Test method .....</b>	<b>5</b>
6.1	Waveform of loading stress .....	5
6.2	Loading method .....	5
6.3	Number of cycles for interruption .....	6
6.4	Reuse of test piece .....	6
6.5	Recommended test procedure in fatigue test .....	6
6.6	Test environment .....	6
<b>7</b>	<b>Treatment of test result .....</b>	<b>6</b>
7.1	Maximum stress .....	6
7.2	Number of cycles to failure .....	7
7.3	S-N plot .....	7
<b>8</b>	<b>Test report .....</b>	<b>7</b>