

# ISO 21712:2020-03 (E)

## Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for flexural bond strength of ceramics

---

<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>Principle .....</b>	<b>2</b>
<b>5</b>	<b>Apparatus .....</b>	<b>4</b>
5.1	Testing machine .....	4
5.2	Test fixture .....	4
5.2.1	General .....	4
5.2.2	Bearings .....	4
5.2.3	Positioning of bearings .....	4
5.2.4	Fixture material .....	4
5.3	Micrometer .....	4
<b>6</b>	<b>Test specimens .....</b>	<b>4</b>
6.1	Specimen size .....	4
6.1.1	Type A specimens .....	4
6.1.2	Type B specimens .....	5
6.1.3	Chamfering and rounded edge .....	5
6.2	Specimen preparation .....	7
6.2.1	General .....	7
6.2.2	Custom machining procedure .....	7
6.2.3	Component-matched procedure .....	7
6.2.4	Basic machining procedure .....	7
6.2.5	Parallelism, orthogonality and chamfer sizes .....	8
6.2.6	Handling of specimens .....	8
6.2.7	Number of specimens .....	8
<b>7</b>	<b>Procedure .....</b>	<b>8</b>
<b>8</b>	<b>Calculation .....</b>	<b>11</b>
<b>9</b>	<b>Test report .....</b>	<b>12</b>