

# ISO 19630:2025-11 (E)

## Fine ceramics (advanced ceramics, advanced technical ceramics) - Methods of test for reinforcements - Determination of tensile properties of filaments at ambient temperature

---

<b>Contents</b>		<b>Page</b>
<b>Foreword</b>		<b>iv</b>
<b>1</b>	<b>Scope</b>	<b>1</b>
<b>2</b>	<b>Normative references</b>	<b>1</b>
<b>3</b>	<b>Terms, definitions and symbols</b>	<b>1</b>
<b>4</b>	<b>Principle</b>	<b>3</b>
<b>5</b>	<b>Apparatus</b>	<b>3</b>
<b>6</b>	<b>Test specimen gauge lengths</b>	<b>3</b>
<b>7</b>	<b>Test specimen preparation</b>	<b>3</b>
<b>8</b>	<b>Number of test specimens</b>	<b>4</b>
<b>9</b>	<b>Test procedure</b>	<b>5</b>
9.1	Displacement rate	5
9.2	Determination of the gauge length	5
9.3	Determination of the initial cross-section area	5
9.4	Testing technique	5
9.4.1	General	5
9.4.2	Load cell	5
9.4.3	Test specimen mounting	5
9.4.4	Measurements	5
9.4.5	Test validity	6
<b>10</b>	<b>Calculation of results</b>	<b>6</b>
10.1	Tensile strength	6
10.1.1	Determination of maximum tensile force	6
10.1.2	Calculation of tensile strength	6
10.2	Calculation of the load train compliance, $C_1$	6
10.3	Strain	7
10.4	Young modulus	8
10.5	Fracture strain	8
<b>11</b>	<b>Statistics</b>	<b>8</b>
<b>12</b>	<b>Test report</b>	<b>9</b>