

# ISO/TS 19397:2015-12 (E)

## Determination of the film thickness of coatings using an ultrasonic gage

---

<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>3</b>
<b>5</b>	<b>Physical principles of the measuring method and of the application .....</b>	<b>3</b>
<b>6</b>	<b>Apparatus and materials .....</b>	<b>5</b>
<b>6.1</b>	<b>Ultrasonic film thickness measuring device .....</b>	<b>5</b>
<b>6.2</b>	<b>Couplant .....</b>	<b>5</b>
<b>6.3</b>	<b>Calibration standards .....</b>	<b>5</b>
<b>7</b>	<b>Calibration, adjustment and checking of the measuring device .....</b>	<b>6</b>
<b>7.1</b>	<b>Calibration .....</b>	<b>6</b>
<b>7.2</b>	<b>Adjustment .....</b>	<b>6</b>
<b>7.3</b>	<b>Checking the adjustment .....</b>	<b>6</b>
<b>8</b>	<b>Procedure of measurement .....</b>	<b>6</b>
<b>9</b>	<b>Temperature influence during the measurement .....</b>	<b>6</b>
<b>10</b>	<b>Precision .....</b>	<b>7</b>
<b>10.1</b>	<b>General .....</b>	<b>7</b>
<b>10.2</b>	<b>Repeatability limit .....</b>	<b>7</b>
<b>10.3</b>	<b>Reproducibility limit .....</b>	<b>8</b>
<b>11</b>	<b>Test report .....</b>	<b>9</b>
<b>Annex A (informative) Qualification of the personnel .....</b>		<b>10</b>
<b>Annex B (informative) Determination of precision .....</b>		<b>11</b>
<b>Bibliography .....</b>		<b>17</b>