

# DIN EN ISO 6507-2:2018-07 (E)

## Metallic materials - Vickers hardness test - Part 2: Verification and calibration of testing machines (ISO 6507-2:2018)

---

<b>Contents</b>		<b>Page</b>
European foreword .....		3
Foreword .....		4
<b>1</b>	<b>Scope</b> .....	<b>5</b>
<b>2</b>	<b>Normative references</b> .....	<b>5</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>5</b>
<b>4</b>	<b>General conditions</b> .....	<b>5</b>
<b>5</b>	<b>Direct verification</b> .....	<b>6</b>
5.1	General .....	6
5.2	Calibration of the test force .....	6
5.3	Verification of the indenter .....	7
5.4	Calibration and verification of the diagonal measuring system .....	8
5.5	Verification of the testing cycle .....	9
5.6	Uncertainty of calibration/verification .....	9
<b>6</b>	<b>Indirect verification</b> .....	<b>9</b>
6.1	General .....	9
6.2	Test force and hardness levels .....	9
6.3	Measurement of reference indentation .....	10
6.4	Number of indentations .....	10
6.5	Verification result .....	10
6.6	Repeatability .....	10
6.7	Bias .....	10
6.8	Uncertainty of calibration/verification .....	11
<b>7</b>	<b>Intervals between verifications</b> .....	<b>11</b>
<b>8</b>	<b>Verification report/calibration certificate</b> .....	<b>11</b>
8.1	Vickers testing machine .....	11
8.2	Vickers indenter .....	12
<b>Annex A (informative) Uncertainty of the calibration results of the hardness testing system</b> .....		<b>13</b>
<b>Bibliography</b> .....		<b>22</b>