

# 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 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>5</b>
<b>3 Terms and definitions</b> .....	<b>5</b>
<b>4 General conditions</b> .....	<b>5</b>
<b>5 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 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 Intervals between verifications</b> .....	<b>11</b>
<b>8 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>