

# ISO 6508-3:2023-12 (E)

## Metallic materials - Rockwell hardness test - Part 3: Calibration of reference blocks

<b>Contents</b>	<b>Page</b>
Foreword.....	iv
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Manufacture of reference blocks</b> .....	<b>1</b>
<b>5 Calibration machine and calibration indenter</b> .....	<b>2</b>
5.1 General.....	2
5.2 Direct verification of the calibration machine.....	2
5.3 Calibration diamond indenter.....	3
5.4 Calibration ball indenter.....	4
5.5 Performance verification of the calibration machine and indenter.....	5
<b>6 Reference block calibration procedure</b> .....	<b>6</b>
<b>7 Number of indentations</b> .....	<b>7</b>
<b>8 Uniformity of hardness</b> .....	<b>7</b>
<b>9 Marking</b> .....	<b>8</b>
<b>10 Calibration certificate</b> .....	<b>8</b>
<b>11 Validity</b> .....	<b>8</b>
<b>Annex A (informative) Uniformity of reference blocks</b> .....	<b>9</b>
<b>Annex B (informative) Uncertainty of the mean hardness value of hardness-reference blocks</b> .....	<b>11</b>
<b>Annex C (normative) Requirements for reference diamond indenters</b> .....	<b>16</b>
<b>Annex D (normative) Control verification of the calibration machine</b> .....	<b>17</b>
<b>Bibliography</b> .....	<b>18</b>