

# DIN EN ISO 6508-1:2024-04 (E)

## Metallic materials - Rockwell hardness test - Part 1: Test method (ISO 6508-1:2023)

<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 Symbols, abbreviated terms and designations</b> .....	<b>5</b>
<b>5 Rockwell hardness</b> .....	<b>7</b>
<b>6 Testing machine</b> .....	<b>8</b>
<b>7 Test piece</b> .....	<b>9</b>
<b>8 Procedure</b> .....	<b>9</b>
<b>9 Uncertainty of the results</b> .....	<b>11</b>
<b>10 Test report</b> .....	<b>11</b>
<b>11 Conversions to other hardness scales or tensile strength values</b> .....	<b>12</b>
<b>Annex A (normative) Special HR30TSm and HR15TSm test for thin products</b> .....	<b>13</b>
<b>Annex B (normative) Minimum thickness of the test piece in relation to the Rockwell hardness</b> .....	<b>14</b>
<b>Annex C (normative) Corrections to be added to Rockwell hardness values obtained on convex cylindrical surfaces</b> .....	<b>17</b>
<b>Annex D (normative) Corrections to be added to Rockwell hardness C scale values obtained on spherical test surfaces of various diameters</b> .....	<b>20</b>
<b>Annex E (normative) Daily verification procedure</b> .....	<b>21</b>
<b>Annex F (normative) Inspection of diamond indenters</b> .....	<b>24</b>
<b>Annex G (informative) Uncertainty of the measured hardness values</b> .....	<b>25</b>
<b>Annex H (informative) CCM — Working group on hardness</b> .....	<b>30</b>
<b>Annex I (informative) Rockwell hardness measurement traceability</b> .....	<b>31</b>
<b>Bibliography</b> .....	<b>35</b>