

# DIN EN ISO 148-3:2017-04 (E)

## Metallic materials - Charpy pendulum impact test - Part 3: Preparation and characterization of Charpy V-notch test pieces for indirect verification of pendulum impact machines (ISO 148-3:2016)

---

<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>3</b>
<b>Foreword</b> .....	<b>4</b>
<b>Introduction</b> .....	<b>5</b>
<b>1 Scope</b> .....	<b>6</b>
<b>2 Normative references</b> .....	<b>6</b>
<b>3 Terms and definitions</b> .....	<b>6</b>
3.1 Definitions pertaining to the machine .....	6
3.2 Definitions pertaining to energy .....	7
3.3 Definitions related to groups of test pieces .....	7
3.4 Definitions pertaining to test pieces .....	7
<b>4 Symbols and abbreviated terms</b> .....	<b>8</b>
<b>5 Reference testing machine</b> .....	<b>9</b>
5.1 Characteristics .....	9
5.1.1 General .....	9
5.1.2 Geometrical characteristics (see <a href="#">Table 2</a> and <a href="#">Figures 1</a> and <a href="#">2</a> ) .....	10
5.1.3 Capacity .....	10
5.1.4 Hardness .....	10
5.1.5 Vibration .....	11
5.1.6 Energy-indicating mechanism .....	11
5.2 Verification of reference testing machine .....	11
<b>6 Reference test pieces</b> .....	<b>11</b>
6.1 General .....	11
6.2 Material .....	11
6.3 Dimensions .....	12
6.4 Marking .....	12
6.5 Qualification of a batch of reference test pieces .....	12
6.6 Reference test piece sets .....	13
<b>7 Certificates for reference test pieces</b> .....	<b>13</b>
<b>8 Notes for using sets of reference test pieces</b> .....	<b>13</b>
<b>Annex A (informative) Uncertainty of the certified <i>KV</i> value of Charpy reference materials</b> .....	<b>16</b>
<b>Bibliography</b> .....	<b>23</b>