Joint Research Centre
Certified reference materials for Charpy pendulum impact tests

Steel Charpy V-notch certified reference materials

<table>
<thead>
<tr>
<th>Code</th>
<th>Nominal absorbed energy level (KV)</th>
<th>Typical expanded uncertainty</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERM-FA013</td>
<td>20-30 J</td>
<td>1.3 J</td>
</tr>
<tr>
<td>ERM-FA015</td>
<td>80 J</td>
<td>2.4 J</td>
</tr>
<tr>
<td>ERM-FA016</td>
<td>120 J</td>
<td>4 J</td>
</tr>
<tr>
<td>ERM-FA415</td>
<td>150 J</td>
<td>4 J</td>
</tr>
</tbody>
</table>

- sets of 5 steel Charpy V-notch test pieces
- for indirect verification in accordance with EN 10045-2 and ISO 148-2 (required once a year at two or more energy levels) at 20 °C, except ERM-FA013 where one batch is available with certified values at 0 °C.

By default a batch certified by 20 °C will be delivered, unless the order explicitly mentions the value at 0 °C.

Accredited producer

The Reference Materials Unit of the JRC-IRMM is accredited according to ISO Guide 34:2009 for the production of Charpy certified reference materials and to ISO 17025:2005 for Charpy tests.

BELAC No. 268-RM

European Reference Materials (ERM®) undergo uncompromising peer evaluation and offer the highest quality and reliability.

All certificates and detailed production information can be downloaded from our website at https://ec.europa.eu/jrc/.

Confidence in measurements

All certificates and detailed production information can be found at https://crm.irmm.jrc.europa.eu/

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