



## Technical Definition

Charpy Impact (-30°C)  
PH 13 8 MO

### *Instructions to participant laboratories*

Please read carefully these instructions **BEFORE** starting the tests.

1. Five specimen blanks are supplied to each participant – 4 results must be provided.
2. The test specimen shall be machined in accordance with the following instructions:

Each test piece shall be 55 mm long and of square section with 10 mm sides. In the centre of the length, there shall be a V-notch of 45°, 2 mm deep with a 0.25 mm radius of curvature at base of notch. The dimensional tolerances stated in the chosen test standard apply:

3. Each participant is required to determine the following parameters:
  - The absorbed energy for each specimen
4. All tests are to be performed in accordance with the requirements of ASTM E23-12c or EN ISO 148-01 (2010) at -30°C.

The tests shall be performed respecting the following conditions:

- One operator only
- One testing machine only
- Tests performed in sequence

5. The following information is to be reported:
  - Specimen dimensions (Length, Height, Width, Height below notch)
  - Test method
  - Results
6. Results are to be reported as follows:
  - Absorbed Energy (J) – to nearest 0.5 J
  - Charpy Value (J/cm<sup>2</sup>) – to nearest 0.1 J/cm
  - Lateral expansion (mm)
7. Testing may commence as soon as test specimens are received. All participant laboratories must supply results by 15<sup>th</sup> May 2016
8. Instructions for submission of results are detailed on the website:

<https://ptpscheme.com>

9. To ensure the confidential treatment of your results in the final report, you will be allocated a unique identity number when you register for the program.