



## Technical Definition

### Brinell/Rockwell B Hardness Test – Aluminium

#### *Instructions to participant laboratories*

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

1. One specimen is supplied to each participant.
2. No additional machining or preparation of the specimen is required.-
3. Each participant is required to determine the hardness at four positions on the specimen.
4. All tests are to be performed in accordance with the following requirements:  
ASTM E18-14a or EN ISO 6508-2 (2005), if performing a Rockwell “B” test.  
ASTM E10-14 or EN ISO 6506-1 (2014), using a force/diameter ratio of 10, if performing the Brinell test.

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:
  - Force applied (kgf)
  - Indenter diameter (mm)
  - Test force application time (s)
  - Room temperature (°C)
  - The hardness value for each indentation
6. Hardness values to be reported to 3 significant digits (i.e. 123 HBW or HRB)
7. Testing may commence as soon as test specimens are received. All participant laboratories must supply results by 15<sup>th</sup> June 2015.

Instructions for submission of results are detailed on the website:

<https://ptpscheme.com>

8. 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.