


<p style="text-align: center;"><b>Technical Definition</b></p> <p style="text-align: center;">Creep Test – Nimonic 75</p>	Revision No. 1	Page 1 of 1
		
	<b>Kit 3-1 2017 PTP Metallic</b>	

### ***Instructions to participant laboratories***

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

1. Five specimen blanks Ø16 x 90 mm are supplied to each participant – 5 results must be provided
2. The specimens shall be machined in accordance with the requirements of ASTM E139-11.

It is permitted to use a rigid specimen for ease of identification of the gauge length.

3. Each participant is required to determine the following parameters:
  - Total Plastic Strain at 100 hours
  - Time to 0,2% Total Plastic Strain
4. All tests are to be performed at a temperature of 580°C / 1076°F and a stress of 160MPa, in accordance with the requirements of ASTM E139-11. Tests shall be stopped after 100 hours.

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 diameter and gauge length (mm) – before and after testing
    - Maximum and minimum temperatures (°C) during test
    - Details of any temperature deviations outside of limits, before and during test
    - The results for the parameters detailed in section 3
  6. Results are to be reported as follows:
    - Total Plastic Strain at 100 hours : to nearest 0.001%
    - Time to 0,2% Total Plastic Strain : to nearest 0.01 hr
  7. Testing may commence as soon as test specimens are received. All participant laboratories must supply results by 1<sup>st</sup> May 2017.
  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.