

Technical Definition

Stress Corrosion (SCC) – Aluminium 7075

Please comply with the HSE policy of your laboratory for each test performed.

Instructions to participant laboratories

Please read these instructions carefully BEFORE starting the tests.

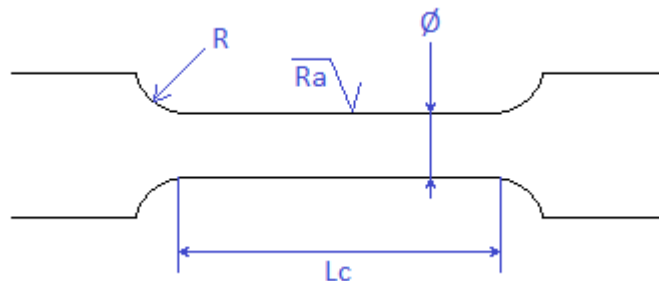
- 10 samples (15 x 15 x 100 mm) are supplied to each participant – 10 results must be provided.

In case of :

- loss or deterioration of PTP sample(s) please contact your sponsor for a replacement kit.
- A decision to exclude the results of one of the samples, you shall provide a short root cause analysis to explain.

- The specimens have to be machined in accordance with the below information.

Definition of test specimen:



\varnothing : 3.17 mm \pm 0.03mm

Lc : 12.7 mm \pm 1,27 mm

Ra : 0,7 μ m

R : 4 mm minimum

- Each participant is required to perform the test according following the **ASTM G44-21 / G47-20/ G49-85 (2019)** and the below testing conditions:

Test method	Constant tensile stress
Stress level	To be confirmed
Time of exposure	To be confirmed



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4. The following information is to be reported and uploaded:

Characteristic	Mandatory / Not mandatory	Evaluated Yes/no
Specimen ID	Mandatory	No
Failure or non-failure	Mandatory	Yes
Duration of failure (if applicable)		
Specimens observations (cracks, pits, etc.)	Mandatory	Yes
Pictures of the specimens before the tests. To store in case of root cause analysis	Mandatory	No
Low magnification picture of the rupture specimens after the tests. To be uploaded on the PTP website	Mandatory	No
High magnification picture of the rupture specimens after the tests. To be uploaded on the PTP website	Mandatory	No
Metallographic cross section of the rupture specimens after the tests. To be uploaded on the PTP website.	Mandatory	No
If any presence of pits please perform a metallography examination and upload the corresponding pictures on the PTP website	Mandatory	No

All evaluated characteristics will be compared to expected results.

5. Testing shall start **as soon as test specimens are received**. Please contact the following e-mail address for any technical or administrative query.

Submission date :	To be confirmed
Technical and administrative support :	info@ptpscheme.com

6. Instructions for submission of results are detailed on the website:

<https://ptpscheme.com>

7. 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.
8. Collusion and falsification of your PTP results are totally forbidden. In case of identification or suspicion of collusion or falsification, the laboratory will be excluded from the program and the sponsors will be immediately informed. The sponsors could ask you proofs of your records and analyses, so be sure to conserve data, curves and specimens.
9. The tested specimens do not need to be sent back to the PTP office.

APPENDIX : Instructions for IRR participation

The Internal Round Robin participation (IRR) is **optional** and **independent** from your PTP participation.

Confidentiality : The IRR results and reports are confidential and only accessible by your laboratory. They are not shared with the scheme sponsors or any other accreditation or certification bodies.

The extra samples shall be tested according to the following table:

	Operator 1	Operator 2	Operator 3	Operator 4	Operator X
Test machine 1	PTP kit (10 samples)	1 sample	1 sample	1 sample	1 sample
Test machine 2	1 sample				
Test machine 3	1 sample				
Test machine Y	1 sample				

Operator 1 (OP1) is to be the most experienced operator currently conducting tests on a regular basis and shall perform tests on all machines (TM1, TM2, TM3...)

Test Machine 1 (TM 1) is to be the most utilised machine for this test in your laboratory and shall be tested by all operators (OP1, OP2, OP3...)

Example: A laboratory has 2 operators and 3 test machines. They receive a PTP kit and 3 extra specimens.

Operator 1 shall test the PTP kit on TM1, 1 specimen on TM2 and 1 specimen on TM3.

Operator 2 shall test 1 specimen on TM1.

The IRR results have to be submitted on a separate results form available on the PTP website.

The identification of operators and test machines you provide will appear on the IRR final report. These identifications will not be seen by other laboratories.

The IRR results will be classified against the acceptance classes of the kit 7-3-2022.

Reminder: Laboratories are not permitted to switch specimens between the PTP kit and IRR samples. The traceability of the samples will be checked during the evaluation. Laboratories found to have switched samples will invalidate their PTP participation.

REVISION HISTORY

Issue Date	Issue N°	Changes
18/01/2022	1	Document creation