

Technical Definition

Intergranular Corrosion to ASTM G28 Method A
Hastelloy C276 (UNS N10276)

You shall respect the HSE policy of your laboratory for each performed test.

Instructions to participant laboratories

Please read these instructions carefully BEFORE starting the tests.

Quantity	1 sample
Specimen dimension	Ø10x40mm
Material	Hastelloy C276 (UNS N10276)
Machining	Y
Standards	ASTM G28 Method A
Testing conditions	Boiling solution 1 specimen per vessel
Parameters for each specimen	24 h exposure Test equipment as per Fig 1 of ASTM G28

- The following results must be submitted:

Characteristics	Units	Evaluated
Specimen ID	N/A	N
Surface finish	ANSI grit	N
Specimen dimensions (length, diameter)	mm	N
Specimen surface area	cm ²	N
Specimen density	g/cm ³	N
Initial and final specimen weight	g	N
Test duration	hrs	N
Weight loss	g	Y
Corrosion rate	mm/y	Y

- All evaluated characteristics will be analysed according to the algorithm A and S (ISO 13528 – 2015) and evaluated using z-score.
- Testing shall start **as soon as test specimens are received**. Please contact the following email address for any technical or administrative query.

Submission date :	July 1st, 2021
Technical and administrative support :	info@ptpscheme.com

**Technical Definition**

Intergranular Corrosion to ASTM G28 Method A
Hastelloy C276 (UNS N10276)

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

<https://ptpscheme.com>

5. 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.
6. 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. If concerned, the sponsors could ask you proofs of your records and analyses, so be sure to conserve data, curves and specimens.
7. The tested specimen does 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 (1 sample)	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 PTP analysis for this test.

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
30/03/2021	1	Document creation