



Technical Definition

Chemical analysis on Inconel 718 material

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

Instructions to participant laboratories

Carefully read these instructions BEFORE starting the tests.

- One specimen is supplied to each participant. Laboratory shall submit a report for each accredited element and accredited method. In case of:
 - loss or deterioration of PTP sample(s) please contact your sponsor for replacement kit.
 - exclusion of a test specimen results by yourself, you shall provide a short root cause analysis
- For each method, the laboratory shall report one value according to its usual process. The laboratory shall also indicate how many analyses (measurements) were performed to obtain this result.
 - One technician shall perform all analyses.
- Each participant is required to report the following elements to the indicated precision regardless of their normal practice.

Element	Symbol	Precision (%)
Silver	Ag	X,XXXXX
Aluminium	Al	X,XXX
Boron	B	X,XXXX
Bismuth	Bi	X,XXXXXX
Carbon	C	X,XXX
Cobalt	Co	X,XXX
Chromium	Cr	X,XXX
Copper	Cu	X,XXX
Iron	Fe	X,XXX
Magnesium	Mg	X,XXXXX
Manganese	Mn	X,XXX
Molybdenum	Mo	X,XXX
Nitrogen	N	X,XXXX
Niobium	Nb	X,XXX
Nickel	Ni	X,XX
Oxygen	O	X,XXXX
Phosphorus	P	X,XXXX
Lead	Pb	X,XXXXX
Sulfur	S	X,XXXX
Selenium	Se	X,XXXXX
Silicon	Si	X,XXX
Tin	Sn	X,XXXXX
Titanium	Ti	X,XXX

All evaluated characteristics will be analysed according to the algorithm A (ISO 13528 – 2015) and evaluated using z-score.



**Kit 8-2 2018 PTP Metallic
second batch**

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4. Each element shall be reported in Percent Concentration, to the precision (the number of significant digits) indicated. If a laboratory is not able to provide results with the required precision, the values shall not be reported.

Non-quantified elements, such as “less than”, “not detected,” etc., shall not be reported.

Elements shall not be reported in PPM or any other unit of measurement than Percent Concentration.

5. The following additional information is to be reported:
- Equipment make, model, year
 - Type of reference standard: alloy match, matrix match, none
 - Other means of standardization: please explain
6. 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 :	July 15th, 2018
Technical and administrative support :	info@ptpscheme.com

7. 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.
9. 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.

REVISION HISTORY

Issue Date	Issue N°	Changes
07/05/2018	1	Document creation