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| Kit 15-1-2020 PTP Metallic | | |

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

Instructions to participant laboratories

Please read carefully these instructions BEFORE starting the tests.

- Inconel 718 powder is supplied to each participant. 3 measurements have to be performed. Please refer to the standard for the volume of the test portion. (the mass to be tested varies from 450 to 600 g depending on the used standard)
Each test has to be performed on fresh powder.

If one result is missing, your test will be considered as an outlier. A RCA shall be completed.

- The powder shall be dried during 1 hour at 80°C prior to testing.
- All tests have to be performed at room temperature in accordance with the requirements of **ASTM B417-18, ASTM B703-17, ASTM B212-17 and ISO 3923-1 (2018)**.

The tests shall be performed respecting the following conditions:

- One operator only
- One testing machine only
- Tests performed in sequence


- The following information need to be reported:

| Characteristic | Unit | Significant digits | Mandatory / Not mandatory | Evaluated Yes/no |
|--------------------------------------|-------------------|--------------------|---------------------------|------------------|
| Humidity | % | XX,X | Mandatory | No |
| Temperature | °C | XX,X | Mandatory | No |
| Type of cup (Carney, Hall, Scott...) | N/A | N/A | Mandatory | No |
| Density cup volume | cm ³ | XX,X | Mandatory | No |
| Mass of the powder within the cup | g | X,XX | Mandatory | No |
| Apparent density | g/cm ³ | X,XX | Mandatory | Yes |

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 e-mail address for any technical or administrative query.

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| Submission date : | July 1st, 2020 |
| Technical and administrative support : | info@ptpscheme.com |

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

<https://ptpscheme.com/>

7. The sponsors could ask you proofs of your records and analyses, so be sure to conserve data, curves and specimens.

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 for proof of your results, so be sure to conserve data, curves and specimens.

REVISION HISTORY

| Issue Date | Issue N° | Changes |
|------------|----------|---|
| 07/01/2020 | 1 | Document creation |
| 24/03/2020 | 2 | Modification of the results submission date |
| 28/05/2020 | 3 | Modification of the results submission date |