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| Revision No. 1                                                                    | Page 1 of 2 | <b>Technical Definition</b><br><br>Inclusion rate |
|  |             |                                                   |
| <b>Kit 10-4 2018 PTP Metallic</b>                                                 |             |                                                   |

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

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

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

1. Two pictures are supplied to each participant – One result per picture must be provided. The measurements have to be performed on the **JPEG** files provided by email. Only one type of inclusion will be evaluated per picture.
  - Picture 1 : Type A
  - Picture 2 : Type D

In case of:

- Exclusion of a test specimen results by yourself, you shall provide a short root cause analysis.
2. Each participant is required to determine the following parameter on each picture according to the ASTM E45-13 standard :
    - Severity class for each identified inclusion (one inclusion type by picture) total thin and heavy series to be reported.

Determine the severity (Magnification for each picture: 100) according to chart comparison method A or D.

The tests shall be performed respecting the following conditions:

- One operator only
  - One dedicated measurement method
3. The following information is to be reported:
    - Method description (few words)
  4. Results are to be reported as follows:

| Characteristic                | Mandatory / Not mandatory | Evaluated<br>Yes/no |
|-------------------------------|---------------------------|---------------------|
| Total severity (thin + heavy) | Mandatory                 | Yes                 |

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

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Inclusion rate

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

|                                               |                                                            |
|-----------------------------------------------|------------------------------------------------------------|
| <b>Submission date :</b>                      | <b>May 1st, 2018</b>                                       |
| <b>Technical and administrative support :</b> | <a href="mailto:info@ptpscheme.com">info@ptpscheme.com</a> |

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.

## REVISION HISTORY

| Issue Date | Issue N° | Changes           |
|------------|----------|-------------------|
| 07/02/2018 | 1        | Document creation |
|            |          |                   |