



SPL-LABMAT s.r.o.

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## PT 2018 Proficiency Test Programme

### Reference to certificate of accreditation :

[https://www.spl-labmat.cz/obsah-mqtsepou/uploads/2018/03/Accreditation\\_certificate-1.pdf](https://www.spl-labmat.cz/obsah-mqtsepou/uploads/2018/03/Accreditation_certificate-1.pdf)

### Provider of Proficiency Testing Schemes:

SPL-LABMAT s.r.o.

ul. 1. máje 432

Czech Republic

735 31 Bohumín 3

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### Contact person:

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### PT 26/1

**Term: April 2018**

Determination of C, Mn, Si, P, S, Cr, Ni, Cu, Mo, V, W, Co, Ti, Al, As, Sn, B, Nb, Sb, Zr, Zn, N in **low alloy steel, solid sample** ~ (C < 0.8%, Mn < 1%, Si < 2.1%, P < 0.06%, S < 0.05%, Cr < 1.1%, Ni < 1.1%, Cu < 0.4%, Mo < 0.4%, V < 0.3%, W < 0.2%, Co < 0.2%, Ti < 0.2%, Al < 0.1%, As < 0.05%, Sn < 0.05%, B < 0.008%, Nb < 0.12%, Sb < 0.05%, Zr < 0.1%, Zn < 0.03%, N < 0.012%) by Atomic Emission and X-Ray Fluorescence spectrometries on a plane of solid sample or methods wet-way analysis from chips.

**In addition, steel chips (50g) will be supplied upon request stated in order, without any additional fee from the participants.**

Participant fee: 240 EUR

### PT 26/2

**Term: April 2018**

**PT 26/2A** Determination of C, S, N in **low alloy steel** (chips) ~ (C < 0.35%, S < 0.035%, N < 0.0130%) - C, S on combustion analysers by IR absorption and N by thermoevolution method.

**PT 26/2B** Determination of C, S in **crushed cast iron** ~ (C < 4.2%, S < 0.02%) on combustion analysers by IR absorption.

**PT 26/2C** Determination of N, O, H in **steel pins** ~ (N < 0.0060%, O < 20 ppm, H < 1 ppm) on combustion analysers.

Participant fee: 240 EUR

### PT 26/4

**Term: May 2018**

Determination of C, Mn, Si, P, S, Cu, Cr, Ni, Al, Mo, Ti, Mg, Sn in **ductile cast iron** ~ (C < 3.5%, Mn < 0.5%, Si < 2.2%, P < 0.05%, S < 0.02%, Cu < 0.3%, Cr < 0.2%, Ni < 0.1%, Al < 0.03%, Mo < 0.05%, Ti < 0.1%, Mg < 0.02%, Sn < 0.05%) by Atomic Emission and X-Ray Fluorescence spectrometries on a plane of **solid sample**. The validated wet-way methods may be used.

Participant fee: 240 EUR

### PT 26/6

**Term: May 2018**

Determination of C, Mn, Si, P, S, Cu, Cr, Ni, Al, Mo, W, V, Ti, Co, As, Sn, Sb, Pb, Zn, Nb, N in **alloy steel, solid sample** ~ (C < 0.5%, Mn < 2%, Si < 0.5%, P < 0.03%, S < 0.02%, Cu < 0.2%, Cr < 4.2%, Ni < 3%, Al < 0.11%, Mo < 1%, W < 0.7%, V < 0.6%, Ti < 0.08%, Co < 0.1%, As < 0.05%, Sn < 0.06%, Sb < 0.05%, Pb < 0.03%, Zn < 0.03%, Nb < 0.1%, N < 0.03%) by Atomic Emission and

X-Ray Fluorescence spectrometries on a plane of solid sample or methods wet-way analysis from chips.

**In addition, steel chips (50g) will be supplied upon request stated in order, without any additional fee from the participants.**

Participant fee: 240 EUR

### **PT 26/9**

**Term: October 2018**

#### **PT 26/9A**

Determination of V, Si, C, P, Al, **in ferrovanadium** ~ (V < 85%, Si < 1.5%, C < 0.25%, P < 0.05%, Al < 2%) by X-Ray Fluorescence spectrometry and wet-way analysis, C on combustion analysers by IR absorption.

Participant fee: 240 EUR

#### **PT 26/9B**

Determination of Fe, MnO, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, CaO, MgO, P<sub>2</sub>O<sub>5</sub>, S, Cr<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> in **slag** ~ (Fe < 7%, MnO < 4%, SiO<sub>2</sub> < 30%, Al<sub>2</sub>O<sub>3</sub> < 4%, CaO < 60%, MgO < 10%, P<sub>2</sub>O<sub>5</sub> < 0.5%, S < 0.5%, Cr<sub>2</sub>O<sub>3</sub> < 0.2%, TiO<sub>2</sub> < 0.5%, F < 4%) by X-Ray Fluorescence spectrometries and wet-way analysis.

Participant fee: 240 EUR

#### **PT 26/9C**

Determination of Fe, Mn, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, CaO, MgO, P in **iron ore** ~ (Fe < 65.0%, Mn < 0.06%, SiO<sub>2</sub> < 18%, Al<sub>2</sub>O<sub>3</sub> < 1%, CaO < 0.3%, MgO < 0.7%, P < 0.1%) by X-Ray Fluorescence spectrometries and wet-way analysis.

Participant fee: 240 EUR

### **Registration and Payment instruction:**

The participant may register for the particular PT by a regular e-mail order to e-mail: [info@spl-labmat.cz](mailto:info@spl-labmat.cz) by the end of the month preceding the month, for which the particular test is scheduled. A single order for more PT is possible. Participant fee for single PT is payable by bank transfer after receipt of the invoice. The invoice is sent along with the PT sample in term of PT. Participant can send more set of results (different instruments and methods, maximum of three sets) for price of one PT.

Carriage is included for participants from European Union. **For participants outside of EU is carriage charged (price on request).**

### **Payment in EUR by bank transfer should be remitted to (Czech bank address):**

Fio banka, a.s.

V Celnici 1028/10

117 21 Praha 1

Czech Republic

Bank account: 2101309874/2010

IBAN: CZ1920100000002101309874

BIC code: FIOBCZPPXXX

### **PT procedure and scoring principles**

Each participant obtains the test sample(s), instruction and a pro forma protocol to be filled in and returned (by mail, fax or e-mail) by the given deadline (usually two weeks after the sample receipt).

After all results are processed and assessed, participants are sent the Summary Report along with the Participation Certificate. The particular scores may be found in the Report under the participant code

known to him and the PT provider only. All data are handled and stored on a strictly confidential basis.

Usually both Z-score options are given based on either SD of the PT participants' means  $s_{PT}$  and generally recognized target SD  $s_N$  when available. For the latter, in case of Fe matrices a comprehensive target SD system TPP-Fe (free for download on the provider's web pages) is used, which is compiled from various analytical standards requirements, smoothing out their possible inconsistencies.

For a scoring reference a consensual value  $X_{PT}$  is estimated as an arithmetic or robust mean of participants means (in respect to their distribution), and compared with an independent reference value  $X_{ref}$  by an accredited expert laboratory. When uncertainty intervals of both X overlap,  $X_{PT}$  is taken- otherwise an independent estimate  $X_{ref}$  is repeated – possibly by more methods and/or laboratories. When disagreement is confirmed, an average of  $X_{PT}$ ,  $X_{ref}$  is assigned for scoring; when excluded,  $X_{PT}$  remains as above.

Dear participants in our proficiency testing programs, we have issued the time schedule of PT tests for better clarity of our services. Unfortunately, we experienced with non-delivery of a sample or a report resulting from failure of post services. Hence, we would kindly ask you for watching the individual deadlines. Don't hesitate to contact us if you don't receive the sample or the report in the deadline as mentioned below.

<b>Sample PT 26/1</b>	<b>2nd-4th April 2018</b> Dispaching of the samples	<b>12th April 2018</b> <i>Please inform us immediately if you don't receive a sample!!!</i>	<b>30th April 2018</b> Deadline for submitting results	<b>1st-31th May 2018</b> Evaluation of results, issuance of certificate and report	<b>11th June 2018</b> <i>Please inform us if you don't receive the report!!!</i>
<b>Samples PT 26/2A PT 26/2B PT 26/2C</b>	<b>2nd-4th April 2018</b> Dispaching of the samples	<b>12th April 2018</b> <i>Please inform us immediately if you don't receive a sample!!!</i>	<b>30th April 2018</b> Deadline for submitting results	<b>1st-31th May 2018</b> Evaluation of results, issuance of certificate and report	<b>11th June 2018</b> <i>Please inform us if you don't receive the report!!!</i>
<b>Sample PT 26/4</b>	<b>1st-3rd May 2018</b> Dispaching of the samples	<b>10th May 2018</b> <i>Please inform us immediately if you don't receive a sample!!!</i>	<b>31th May 2018</b> Deadline for submitting results	<b>1st-29th June 2018</b> Evaluation of results, issuance of certificate and report	<b>10th July 2018</b> <i>Please inform us if you don't receive the report!!!</i>
<b>Sample PT 26/6</b>	<b>1st-3rd May 2018</b> Dispaching of the samples	<b>10th May 2018</b> <i>Please inform us immediately if you don't receive a sample!!!</i>	<b>31th May 2018</b> Deadline for submitting results	<b>1st-29th June 2018</b> Evaluation of results, issuance of certificate and report	<b>10th July 2018</b> <i>Please inform us if you don't receive the report!!!</i>
<b>Samples PT 26/9A PT 26/9B PT 26/9C</b>	<b>1st-3rd October 2018</b> Dispaching of the samples	<b>12th October 2018</b> <i>Please inform us immediately if you don't receive a sample!!!</i>	<b>31th October 2018</b> Deadline for submitting results	<b>1st-30th November 2018</b> Evaluation of results, issuance of certificate and report	<b>11th December 2018</b> <i>Please inform us if you don't receive the report!!!</i>