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Proficiency Testing Provider
No. 7006 accredited by
the Czech Accreditation
Institute
by EN ISO/IEC 17043



PT 2019 Proficiency Test Programme

Reference to certificate of accreditation :

https://www.spl-labmat.cz/obsah-mqtsepou/uploads/2019/03/Accreditation_certificate-1.pdf

Provider of Proficiency Testing Schemes:

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PT 27/1

Term: April 2019

Determination of C, Mn, Si, P, S, Cu, Cr, Ni, Al, Mo, W, V, Ti, Co, As, Sn, B, Nb, Sb, Pb **in low alloy steel, solid sample** ~ (C < 0.4%, Mn < 0.5%, Si < 0.3%, P < 0.02%, S < 0.014%, Cu < 0.07%, Cr < 1.5%, Ni < 0.16%, Al < 0.02%, Mo < 0.3%, W < 0.016%, V < 0.06%, Ti < 0.01%, Co < 0.05%, As < 0.006%, Sn < 0.02%, B < 0.01%, Nb < 0.02%, Sb < 0.011%, Pb < 0.02%) 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: 270 EUR

PT 27/2

Term: April 2019

PT 27/2A Determination of C, S, N **in alloy steel** (chips) ~ (C < 0.07%, S < 0.04%, N < 0.24%)
- C, S on combustion analysers by IR absorption and N by thermoevolution method.

PT 27/2B Determination of C, S in **crushed cast iron** ~ (C < 4.8%, S < 0.02%) on combustion analysers by IR absorption.

PT 27/2C Determination of N, O, H in **alloy steel pins** ~ (N < 120ppm , O < 60ppm , H < 2ppm) on combustion analysers.

Participant fee: 270 EUR.

PT 27/4

Term: May 2019

Determination of C, Mn, Si, P, S, Cu, Cr, Ni, Al, Mo, Mg, W, V, Ti, Co, B, Pb in **ductile cast iron**
~ (C < 4%, Mn < 0.22%, Si < 2.8%, P < 0.07%, S < 0.007%, Cu < 0.15%, Cr < 0.25%, Ni < 0.8%, Al < 0.06%, Mo < 0.19%, Mg < 0.07%, W < 0.04%, V < 0.05%, Ti < 0.14%, Co < 0.05%, B < 0.02%, Pb < 0.02%) by Atomic Emission and X-Ray Fluorescence spectrometries on a plane of **solid sample**.
The validated wet-way methods may be used.

Participant fee: 270 EUR

PT 27/6**Term: May 2019****PT 27/6A**

Determination of C, Mn, Si, P, S, Cu, Cr, Ni, Mo, W, V, Ti, Co, As, Sn, B, Nb, Pb, Zr, N, Ta **in alloy steel**, solid sample ~ (C < 0.8%, Mn < 1.5%, Si < 1.1%, P < 0.04%, S < 0.06%, Cu < 1.2%, Cr < 23%, Ni < 16%, Mo < 1%, W < 0.27%, V < 0.34%, Ti < 0.04%, Co < 0.19%, As < 0.008%, Sn < 0.015%, B < 0.017%, Nb < 0.1%, Pb < 0.003%, Zr < 0.02%, N < 0.18%, Ta < 0.013%) by Atomic Emission and X-Ray Fluorescence spectrometries on a plane of solid sample or methods wet-way analysis from chips.

PT 27/6B (optional upon request, free of charge with PT 27/6A)

Determination of C, Mn, Si, P, S, Cu, Cr, Ni, Mo, W, V, Nb, N **in alloy steel**, solid sample ~ (C < 0.4%, Mn < 12%, Si < 1.8%, P < 0.025%, S < 0.16%, Cu < 0.05%, Cr < 25%, Ni < 8%, Mo < 0.2%, W < 0.05%, V < 0.9%, Nb < 1%, N < 0.4%)

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

Participant fee for PT 27/6: 270 EUR

PT 27/9**Term: October 2019****PT 27/9A**

Determination of C, Mn, Si, P, Cr, Al, Ti, Ca **in ferrosilicium** ~ (C < 0.33%, Mn < 0.7%, Si < 78%, P < 0.05%, Cr < 0.7%, Al < 2%, Ti < 0.2%, Ca < 0.6%) by X-Ray Fluorescence spectrometry and wet-way analysis, C on combustion analysers by IR absorption.

Participant fee: 270 EUR

PT 27/9B

Determination of Fe, SiO₂, Al₂O₃, MnO, CaO, MgO, S, TiO₂, K₂O, Na₂O **in slag** ~ (Fe < 1%, SiO₂ < 45%, Al₂O₃ < 10%, MnO < 0.8%, CaO < 50%, MgO < 12%, S < 1%, TiO₂ < 0.5%, K₂O < 0.4%, Na₂O < 0.5%) by X-Ray Fluorescence spectrometries and wet-way analysis.

Participant fee: 270 EUR

PT 27/9C

Determination of Fe, SiO₂, Al₂O₃, Mn, CaO, MgO, P **in iron ore** ~ (Fe < 70%, SiO₂ < 10%, Al₂O₃ < 0.24%, Mn < 0.05%, CaO < 0.33%, MgO < 0.6%, P < 0.02%) by X-Ray Fluorescence spectrometries and wet-way analysis.

Participant fee: 270 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 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.

Sample PT 27/1	1st-4th April 2019 Dispaching of the samples	12th April 2019 <i>Please inform us immediately if you don't receive a sample!!!</i>	30th April 2019 Deadline for submitting results	1st-31th May 2019 Evaluation of results, issuance of certificate and report	11th June 2019 <i>Please inform us if you don't receive the report!!!</i>
Samples PT 27/2A PT 27/2B PT 27/2C	1st-4th April 2019 Dispaching of the samples	12th April 2019 <i>Please inform us immediately if you don't receive a sample!!!</i>	30th April 2019 Deadline for submitting results	1st-31th May 2019 Evaluation of results, issuance of certificate and report	11th June 2019 <i>Please inform us if you don't receive the report!!!</i>
Sample PT 27/4	1st-3rd May 2019 Dispaching of the samples	10th May 2019 <i>Please inform us immediately if you don't receive a sample!!!</i>	31th May 2019 Deadline for submitting results	3rd-28th June 2019 Evaluation of results, issuance of certificate and report	10th July 2019 <i>Please inform us if you don't receive the report!!!</i>
Sample PT 27/6	1st-3rd May 2019 Dispaching of the samples	10th May 2019 <i>Please inform us immediately if you don't receive a sample!!!</i>	31th May 2019 Deadline for submitting results	3rd-28th June 2019 Evaluation of results, issuance of certificate and report	10th July 2019 <i>Please inform us if you don't receive the report!!!</i>
Samples PT 27/9A PT 27/9B PT 27/9C	1st-3rd October 2019 Dispaching of the samples	11th October 2019 <i>Please inform us immediately if you don't receive a sample!!!</i>	31th October 2019 Deadline for submitting results	1st-29th November 2019 Evaluation of results, issuance of certificate and report	11th December 2019 <i>Please inform us if you don't receive the report!!!</i>