



**EA MLA Signatory**  
**Český institut pro akreditaci, o.p.s.**  
(Czech Accreditation Institute)  
**Hájkova 2747/22, Žižkov, 130 00 Praha 3**

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

# **CERTIFICATE OF ACCREDITATION**

**No. 453/2025**

**ENVIFORM a.s.**  
**with registered office Závodní 814, Staré Město, 739 61 Třinec**  
**Company Registration No. 25839047**

**for the Testing Laboratory No. 1371**  
**LABORATORIES CENTRE**

Scope of accreditation:

Sampling of water, waste, solid materials and sludge; measurement of emissions; measurement of physical factors in working and non-working environment; chemical and physical analyses of water, heating gases, benzol, fuels, charge and metallurgical materials, intermediate products, products and waste from metallurgical production to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

**ČSN EN ISO/IEC 17025:2018**

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 650/2024 of 04/12/2024, and/or any administrative acts building upon it.

**The Certificate of Accreditation is valid until: 04/12/2029**

Prague: 04/09/2025



Signed in the Czech original:  
Jan Velíšek on 04/09/2025

**Jan Velíšek**  
Director of the Department  
of Testing and Calibration Laboratories  
Czech Accreditation Institute

This translation of the Czech original has been issued by: Andrea Muzikářová

**The Appendix is an integral part of  
Certificate of Accreditation No: 453/2025 of 04/09/2025**

**Accredited entity according to ČSN EN ISO/IEC 17025:2018:**

**ENVIFORM a.s.**  
CAB number 1371, LABORATORIES CENTRE  
Závodní 814, Staré Město, 739 61 Třinec

**Testing laboratory locations:**

|                                                         |                                                                        |
|---------------------------------------------------------|------------------------------------------------------------------------|
| <b>1. 1. Sampling Laboratory</b>                        | Závodní 814, Staré Město, 739 61 Třinec                                |
| <b>2. 2. Emission Measurement Laboratory</b>            | Závodní 814, Staré Město, 739 61 Třinec                                |
| <b>3. 3. Working and Living Environment Laboratory</b>  | Závodní 814, Staré Město, 739 61 Třinec                                |
| <b>4. 4.A Quantometric Laboratory</b>                   | Průmyslová 1041, Staré Město, 739 61 Třinec                            |
| <b>5. 4.B Quantometric Laboratory</b>                   | Průmyslová 1000 - budova KKO u jižní brány, Staré Město, 739 61 Třinec |
| <b>6. 5.A Chemical and Physical Analysis Laboratory</b> | Závodní 814, Staré Město, 739 61 Třinec                                |
| <b>7. 5.B Chemical and Physical Analysis Laboratory</b> | Průmyslová 1041, Staré Město, 739 61 Třinec                            |

*The laboratory is qualified to carry out standalone sampling.*

*Detailed information on activities within the scope of accreditation (determined analytes / tested subject / subject of sampling / source literature) is given in the section "Specification of the scope of accreditation".*

**1. 1. Sampling Laboratory**

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name                                                                                       | Test procedure / method identification <sup>2</sup> | Tested subject                                                        | Degrees of freedom <sup>3</sup> |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------|---------------------------------|
| 1*                          | Determination of temperature                                                                                       | SPL-Lv-01<br>(ČSN 75 7342)                          | Drinking, surface, ground, waste and bathing water and drinking water | -                               |
| 2*                          | Determination of total and free chlorine (spectrophotometric method) by HACH set and calculation of bound chlorine | SPL-Lv-02<br>(HACH manual)                          | Drinking water and bathing water                                      | -                               |
| 3*                          | Determination of electrical conductivity                                                                           | SPL-Lv-03<br>(ČSN EN 27888)                         | Drinking, surface, ground and waste water                             | -                               |
| 4*                          | Determination of pH by potentiometry                                                                               | SPL-Lv-04<br>(ČSN ISO 10523)                        | Drinking, surface, ground, waste and bathing water                    | -                               |
| 5*                          | Determination of ozone by spectrophotometry with HACH set                                                          | SPL-Lv-05<br>(HACH manual)                          | Drinking, bathing, ground and surface water                           | -                               |

<sup>1</sup> asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

<sup>2</sup> if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

<sup>3</sup> the laboratory does not apply a flexible approach to the scope of accreditation

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**ENVIFORM a.s.**  
CAB number 1371, LABORATORIES CENTRE  
Závodní 814, Staré Město, 739 61 Třinec

**Specification of the scope of accreditation:**

| Ordinal test number | Detailed information on activities within the scope of accreditation (tested subject)                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 - 5               | Drinking water – includes not only drinking water but also hot water                                                                                                                           |
| 1, 3, 4             | Surface water – natural and artificial water reservoirs, water streams                                                                                                                         |
| 1, 2, 4, 5          | Bathing water – artificial water reservoirs (swimming and bathing pools, pools for sucklings and toddlers, sauna cooling pools) and natural bathing places and other surface water for bathing |
| 1, 3, 4             | Waste water - waste water, industrial water, cooling water, circuit water                                                                                                                      |

**Sampling:**

| Ordinal number | Sampling procedure name                                              | Sampling procedure identification <sup>1</sup>                                                                         | Subject of sampling                      |
|----------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 1              | Surface water sampling (manual sampling)                             | SPO-Lv-01<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-4;<br>ČSN EN ISO 5667-6;<br>ČSN EN ISO 5667-14) | Surface water                            |
| 2              | Waste water sampling (manual sampling, automatic sampler)            | SPO-Lv-02<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-10;<br>ČSN EN ISO 5667-14)                      | Waste water                              |
| 3              | Ground water sampling (manual sampling, sampling by a sampling pump) | SPO-Lv-03<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-11;<br>ČSN EN ISO 5667-14)                      | Ground water                             |
| 4              | Drinking water sampling                                              | SPO-Lv-04<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-5;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 19458)  | Drinking water, hot water                |
| 5              | Collection of waste and solid materials                              | SPO-Lv-05<br>(ČSN EN 14899;<br>Guideline for waste sampling, Ministry of Environment Bulletin, 2008, Part 4)           | Waste and solid materials                |
| 6              | Sludge sampling                                                      | SPO-Lv-06<br>(ČSN EN 14899;<br>ČSN ISO 5667-12;<br>ČSN EN ISO 5667-13;<br>ČSN EN ISO 5667-15)                          | Sludge, sediments and processed biowaste |

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| Ordinal number | Sampling procedure name | Sampling procedure identification <sup>1</sup>                                                                                                                                    | Subject of sampling |
|----------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 7              | Bathing water sampling  | SPO-Lv-07<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-4;<br>ČSN EN ISO 5667-6;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 19458;<br>MoH Regulation No. 238/2011 Coll.) | Bathing water       |

<sup>1</sup> if the document identifying the sampling procedure is dated, only these specific procedures are used. If the document identifying the sampling procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

**Specification of the scope of accreditation:**

| Ordinal test number | Detailed information on activities within the scope of accreditation (subject of sampling)                                                                                                     |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                   | Surface water – natural and artificial water reservoirs, water streams                                                                                                                         |
| 2                   | Waste water - waste water, industrial water, cooling water, circuit water                                                                                                                      |
| 5                   | Solid materials – slags, linings, concrete, railway ballast, rolling mill scale                                                                                                                |
| 7                   | Bathing water – artificial water reservoirs (swimming and bathing pools, pools for sucklings and toddlers, sauna cooling pools) and natural bathing places and other surface water for bathing |

## 2. Emission Measurement Laboratory

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name                                                            | Test procedure / method identification <sup>2</sup> | Tested subject | Degrees of freedom <sup>3</sup> |
|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------|----------------|---------------------------------|
| 1                           | Determination of the mass concentration of TZL (solid pollutants) by gravimetric method | SPL-Le-01<br>(ČSN EN 13284-1)                       | Emissions      | -                               |
| 2*                          | Determination of the velocity and volume flow rate of gas streams in ducts              | SPL-Le-02<br>(ČSN ISO 10780;<br>ČSN EN ISO 16911-1) | Emissions      | -                               |
| 3*                          | Determination of water vapour in ducts by condensation method and capacitance detector  | SPL-Le-05<br>(ČSN EN 14790)                         | Emissions      | -                               |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                                                                                              | Test procedure / method identification <sup>2</sup>                | Tested subject                       | Degrees of freedom <sup>3</sup> |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------|---------------------------------|
| 4*                          | Determination of mass concentration of sulphur dioxide, carbon monoxide and nitrogen oxides by automatic analyser – NDIR method           | SPL-Le-06<br>(ČSN ISO 7935;<br>ČSN EN 15058;<br>ČSN ISO 10849)     | Emissions                            | -                               |
| 5                           | Determination of the mass concentration of gases and vapours <sup>4</sup> by calculation from measured values (                           | SPL-Le-07<br>(ČSN EN 1911;<br>ČSN P CEN/TS 17340;<br>ČSN EN 14791) | Emissions                            | -                               |
| 6*                          | Determination of the mass concentration of nitrogen oxides - chemiluminescence method                                                     | SPL-Le-08<br>(ČSN EN 14792)                                        | Emissions                            | -                               |
| 7*                          | Determination of mass concentration of total organic compounds expressed as TOC by automatic analyser - flame ionization detection method | SPL-Le-09<br>(ČSN EN 12619)                                        | Emissions                            | -                               |
| 8*                          | Determination of the volume concentration of oxygen by automatic analyzer – paramagnetic method                                           | SPL-Le-10<br>(ČSN EN 14789)                                        | Emissions                            | -                               |
| 9*                          | Determination of mass concentration of carbon dioxide by automatic analyser - NDIR method                                                 | SPL-Le-10A<br>(ISO 12039)                                          | Emissions                            | -                               |
| 10                          | Determination of the mass concentration of persistent organic compounds <sup>4</sup> by calculation from measured values                  | SPL-Le-11<br>(ČSN EN 1948-1;<br>ČSN EN 1948-4+A1)                  | Emissions                            | -                               |
| 11                          | Determination of the mass concentration of heavy metals <sup>4</sup> by calculation from measured values                                  | SPL-Le-12<br>(ČSN EN 14385;<br>ČSN EN 13211;<br>US EPA 29)         | Emissions                            | -                               |
| 12*                         | Quality assurance of automated measuring systems                                                                                          | SPL-Le-14<br>(ČSN EN 14181, cl. 6.3-6.8<br>QAL2, cl. 8 AST)        | Automated emission measuring systems | -                               |

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<sup>2</sup> if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

<sup>3</sup> the laboratory does not apply a flexible approach to the scope of accreditation

<sup>4</sup> laboratory determination of the analytes in the sample is carried out by an external test provider within the scope of its accreditation

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**Specification of the scope of accreditation:**

| Ordinal test number | Detailed information on activities within the scope of accreditation (determined analytes) |
|---------------------|--------------------------------------------------------------------------------------------|
| 5                   | HCl, HF, SO <sub>2</sub>                                                                   |
| 10                  | PCDD/PCDF, PCB, PAH                                                                        |
| 11                  | Sb, As, Be, Sn, Cr, Co, Cd, Mn, Cu, Ni, Pb, Se, Te, Tl, V, Zn, Hg                          |

**Sampling:**

| Ordinal number | Sampling procedure name                                                                                                                   | Sampling procedure identification <sup>1</sup>                                | Subject of sampling |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------|
| 1              | Sampling of persistent organic compounds (PCDD/PCDF, PCB, PAH) by filtration condensation method – automatic or manual isokinetic control | SPO-Le-11<br>(ČSN EN 1948-1;<br>ČSN EN 1948-4+A1)                             | Emissions           |
| 2              | Sampling of heavy metals (Sb, As, Be, Sn, Cd, Cr, Co, Cu, Mn, Ni, Pb, Se, Te, Tl, V, Zn, Hg); automatic or manual isokinetic control      | SPO-Le-12<br>(ČSN EN 14385;<br>ČSN EN 13211;<br>ČSN EN 13284-1;<br>US EPA 29) | Emissions           |
| 3              | Sampling of TZL; automatic or manual isokinetic control                                                                                   | SPO-Le-01<br>(ČSN EN 13284-1)                                                 | Emissions           |
| 4              | Sampling of gases and vapours by absorption in a liquid (HCl, HF, SO <sub>2</sub> )                                                       | SPO-Le-07<br>(ČSN EN 1911;<br>ČSN P CEN/TS 17340;<br>ČSN EN 14791)            | Emissions           |

<sup>1</sup> if the document identifying the sampling procedure is dated, only these specific procedures are used. If the document identifying the sampling procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

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**3. 3. Working and Living Environment Laboratory**

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name                                                          | Test procedure / method identification <sup>2</sup>                                                                                                        | Tested subject                          | Degrees of freedom <sup>3</sup> |
|-----------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------|
| 1                           | Determination of dust concentration by gravimetry                                     | SPL-Lh-01<br>(Gov. Reg. 361/2007 Coll.;<br>ČSN EN 481;<br>ČSN EN 482;<br>ČSN EN 689+AC)                                                                    | Working environment                     | -                               |
| 2                           | Determination of chemical substances <sup>4</sup> by calculation from measured values | SPL-Lh-02<br>(Gov. Reg. 361/2007 Coll.;<br>ČSN EN 481;<br>ČSN EN 482;<br>ČSN EN 689+AC)                                                                    | Working environment                     | -                               |
| 3*                          | Measurement of noise                                                                  | SPL-Lh-03<br>(ČSN EN ISO 9612,<br>MoH Bulletin, Part 4, 2013)                                                                                              | Working environment                     | -                               |
| 4*                          | Measurement of noise                                                                  | SPL-Lh-04<br>(ČSN ISO 1996-1;<br>ČSN ISO 1996-2;<br>MoH Bulletin, Part 14, 2013))                                                                          | Non-working environment                 | -                               |
| 5*                          | Measurement of vibration                                                              | SPL-Lh-05<br>(ČSN EN ISO 5349-1;<br>ČSN EN ISO 5349-2;<br>ČSN ISO 2631-1;<br>ČSN ISO 2631-2;<br>MoH Bulletin, Part 4, 2013)                                | Working environment                     | -                               |
| 6*                          | Measurement of lighting                                                               | SPL-Lh-06<br>(ČSN 36 0011-1;<br>ČSN 36 0011-2;<br>ČSN 36 0011-3;<br>ČSN 36 0011-4;<br>ČSN 73 0580-1;<br>ČSN 36 0020;<br>ČSN EN 12464-1;<br>ČSN EN 12464-2) | Workplace and non-workplace environment | -                               |
| 7*                          | Measurement of microclimatic conditions                                               | SPL-Lh-07<br>(ČSN EN ISO 7726;<br>ČSN EN ISO 7730;<br>MoH Bulletin, Part 8, 2013)                                                                          | Workplace and non-workplace environment | -                               |

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<sup>4</sup> laboratory determination of the analytes in the sample is carried out by an external test provider within the scope of its accreditation

**Specification of the scope of accreditation:**

| Ordinal test number | Detailed information on activities within the scope of accreditation (determined analytes)                                                                                   |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2                   | Chemical substances according to GR 361/2007 Coll., Annex 2, Part A                                                                                                          |
| 7                   | $t_a$ (°C) – air temperature, $t_g$ (°C) – resulting temperature of spherical thermometer, $r_h$ (%) – relative air humidity, $v_a$ (m.s <sup>-1</sup> ) – air flow velocity |

**Specification of the scope of accreditation:**

| Ordinal test number | Detailed information on activities within the scope of accreditation (source literature)                                                                              |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3, 5                | MoE CR Bulletin 2013, part 4: Guideline for the measurement and evaluation of noise and vibrations at workplace and vibrations in protected indoor areas of buildings |
| 4                   | MoE CR Bulletin 2023, part 14: Guideline for the measurement and evaluation of noise in non-working environment                                                       |
| 7                   | MoE CR Bulletin 2013, part 8: Guideline for the measurement and evaluation of microclimatic conditions of working environment and indoor areas of buildings           |

**Sampling:**

| Ordinal number | Sampling procedure name                                              | Sampling procedure identification <sup>1</sup>                                                  | Subject of sampling |
|----------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------|
| 1              | Sampling of dust, aerosol and mineral fibres by catching on a filter | SPO-Lh-01<br>(Gov. Reg. 361/2007 Coll.;<br>ČSN EN 481;<br>ČSN EN 482;<br>ČSN EN 689+AC)         | Workplace air       |
| 2              | Sampling of gases and vapours by catching on a solid sorbent         | SPO-Lh-02<br>(Gov. Reg. 361/2007 Coll.;<br>ČSN EN 482;<br>ČSN EN 689+AC;<br>ČSN EN ISO 16017-1) | Workplace air       |

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**4. 4.A Quantometric Laboratory**

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name                                                                                                                                                                                                         | Test procedure / method identification <sup>2</sup>                                                                                 | Tested subject                         | Degrees of freedom <sup>3</sup> |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------|
| 1                           | Determination of <sup>60</sup> Co mass activity by scintillation gamma spectrometry                                                                                                                                                  | SPL-Lq-01<br>(IAEA-TECDOC-855;<br>SKF 11H 1551822, Issue 4;<br>Regulation No. 422/2016 Coll.;<br>Act no. 263/2016 Coll.)            | Steel, cast iron                       | -                               |
| 2                           | Determination of oxygen and hydrogen content by method of IR absorption after melting in inert gas                                                                                                                                   | SPL-Lq-02<br>(ASTM E 1019;<br>ČSN EN 10276-2;<br>ČSN 42 0540;<br>SKF 11H 1551218, Issue 5;<br>ČSN 42 0529)                          | Steel, cast iron                       | -                               |
| 3                           | Determination of nitrogen content – thermal conductometric method after melting in inert gas                                                                                                                                         | SPL-Lq-03<br>(ASTM E 1019;<br>ČSN EN ISO 15351;<br>ČSN EN ISO 10720)                                                                | Steel, cast iron                       | -                               |
| 4                           | Determination of total carbon and sulphur content by method of infrared detection after combustion in induction furnace                                                                                                              | SPL-Lq-04<br>(ASTM E 1019;<br>ČSN EN ISO 15349-2;<br>ČSN EN ISO 15350;<br>ČSN ISO 9556;<br>ČSN ISO 4935;<br>ČSN 42 0541)            | Steel, cast iron,<br>iron, ferroalloys | -                               |
| 5                           | Determination of content of elements (C, Mn, Si, P, S, Cu, Cr, Ni, Al, Al <sub>2</sub> O <sub>3</sub> metallic form, Mo, W, V, Ti, Co, As, Sn, B, Ca, Nb, Pb, Sb, Zr, Zn, Bi, Ta, Ce, Mg, N) by optical emission vacuum spectrometry | SPL-Lq-05<br>(ASTM E 415;<br>ASTM E 1086;<br>ASTM E 1999;<br>Thermo Fisher Scientific and OBLF user manual)                         | Steel, cast iron, iron                 | -                               |
| 6                           | Determination of content of elements (C, Mn, Si, P, S, Al, Cu, Cr, Ni, Mo, W, V, Ti, Co, As, Sn, Nb, Pb, Sb, Zr, Zn, Bi, Fe) by X-ray fluorescent spectrometry                                                                       | SPL-Lq-06-3A<br>(ASTM E 572;<br>ČSN EN 15063-1;<br>ČSN EN 15063-2;<br>HŽ 42 0594;<br>Thermo Fisher Scientific and OBLF user manual) | Metallic materials                     | -                               |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Test procedure / method identification <sup>2</sup>                                                                                      | Tested subject | Degrees of freedom <sup>3</sup> |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------|
| 7                           | Determination of the content of elements (Fe, Si, Al, Mn, Ca, Mg, P, S, Ti, Na, K, Cr, Zn, F) by X-ray fluorescence spectrometry and calculation of their oxides, carbonates and fluorides (Fe <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MnO, CaO, CaCO <sub>3</sub> , MgO, MgCO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , TiO <sub>2</sub> , Na <sub>2</sub> O, K <sub>2</sub> O, Cr <sub>2</sub> O <sub>3</sub> , CaF <sub>2</sub> ) from measured values | SPL-Lq-06-3B<br>(ISO 9516-1;<br>HŽ 42 0593;<br>ČSN EN ISO 12677;<br>HŽ 72 2019;<br>ASTM C 1271;<br>Thermo Fisher Scientific user manual) | Bulk materials | -                               |

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<sup>3</sup> the laboratory does not apply a flexible approach to the scope of accreditation

**Specification of the scope of accreditation:**

| Ordinal test number | Detailed information on activities within the scope of accreditation (tested subject)                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4                   | Ferroalloys - ferrosilicon, ferromanganese, ferrosilicon manganese, ferro sulphur, ferrochromium, ferroboration, ferrotitanium, ferrotungsten, ferrovanadium, ferromolybdenum, ferrosiliconzirconium, ferrosiliconcalcium                                                                                                                                                                                                                                                                                                       |
| 6                   | Metallic materials – materials with an iron matrix (steel, cast iron, iron) or copper matrix (bronze, copper)                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 7                   | Bulk materials – charge materials with iron matrix (e.g. iron ores, ore mixtures, agglomerated ores, pellets, concentrates, agglomerates, ferroalloys – ferrosilicon, ferromanganese, ferrosilicomanganese), metallurgical waste with iron matrix (e.g. blast-furnace dust, sludge), slag and materials with non-ferrous matrix (e.g. blast-furnace slag, steel-furnace slag, slag aggregates), refractory material (e.g. bauxite, pelt, clay, fire clay, kaolin, magnesite), slag-forming materials (e.g. limestone, dolomite) |

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**5. 4.B Quantometric Laboratory**

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name                                                                                                                                                                     | Test procedure / method identification <sup>2</sup>                         | Tested subject | Degrees of freedom <sup>3</sup> |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------|---------------------------------|
| 1                           | Determination of content of elements (C, Mn, Si, P, S, Cu, Cr, Ni, Al, Al_metallic form, Mo, W, V, Ti, Co, As, Sn, B, Ca, Nb, Pb, Sb, Zr, Zn, Bi, Mg, N) by optical emission vacuum spectrometry | SPL-Lq-10<br>(ASTM E 415;<br>Thermo Fisher Scientific and OBLF user manual) | Steel          | -                               |

<sup>1</sup> asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

<sup>2</sup> if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

<sup>3</sup> the laboratory does not apply a flexible approach to the scope of accreditation

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**Accredited entity according to ČSN EN ISO/IEC 17025:2018:**

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CAB number 1371, LABORATORIES CENTRE  
Závodní 814, Staré Město, 739 61 Třinec

**6. 5.A Chemical and Physical Analysis Laboratory**

**Tests:**

| <b>Ordinal number<sup>1</sup></b> | <b>Test procedure / method name</b>                                                                                                                                     | <b>Test procedure / method identification<sup>2</sup></b>                                                                                                                                                                                                                                        | <b>Tested subject</b>       | <b>Degrees of freedom<sup>3</sup></b> |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------|
| 1                                 | Determination of water content by gravimetry                                                                                                                            | SPL-Lk-11<br>(ČSN 44 1377;<br>ČSN ISO 579;<br>ČSN ISO 687;<br>ČSN EN ISO 18134-1;<br>ČSN EN ISO 18134-2;<br>ČSN EN ISO 18134-3;<br>ČSN P CEN/TS 15414-1;<br>ČSN P CEN/TS 15414-2;<br>ČSN EN ISO 21660-3;<br>ČSN ISO 3087;<br>ČSN ISO 7764:1993;<br>ČSN EN 459-2;<br>ČSN EN 14346:2007, method A) | Solid fuels, bulk materials | -                                     |
| 2                                 | Determination of ash content by gravimetry                                                                                                                              | SPL-Lk-12<br>(ČSN ISO 1171;<br>ČSN EN ISO 18122;<br>ČSN EN ISO 21656)                                                                                                                                                                                                                            | Solid fuels                 | -                                     |
| 3                                 | Determination of the content of volatile combustible matter by gravimetry                                                                                               | SPL-Lk-13(ČSN ISO 562;<br>ČSN ISO 5071;<br>ČSN EN ISO 18123;<br>ČSN EN ISO 22167)                                                                                                                                                                                                                | Solid fuels                 | -                                     |
| 4                                 | Determination of total sulphur and carbon content by IR detection method                                                                                                | SPL-Lk-14<br>(ČSN ISO 19579;<br>ČSN EN ISO 16948;<br>ČSN EN ISO 16994;<br>ČSN EN ISO 21663;<br>ČSN ISO 29541;<br>ČSN 72 2030-10:1992;<br>ČSN 72 2041-19:1992)                                                                                                                                    | Solid fuels, bulk materials | -                                     |
| 5                                 | Determination of gross calorific value ( $Q_s$ ) by the bomb calorimetric method, calculation of net calorific value ( $Q_i$ ) and emission factor from measured values | SPL-Lk-15<br>(ČSN ISO 1928;<br>ČSN EN ISO 18125;<br>ČSN EN ISO 21654)                                                                                                                                                                                                                            | Solid fuels                 | -                                     |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                                                                                                                                                                                                                                                                        | Test procedure / method identification <sup>2</sup>                                                   | Tested subject                  | Degrees of freedom <sup>3</sup> |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|
| 6                           | Determination of basic elements (C, H, N, S) using an analyzer with TCD detection                                                                                                                                                                                                                                   | SPL-Lk-16(ČSN ISO 29541; ČSN EN ISO 16948; ČSN EN ISO 16994; ČSN EN ISO 21663; ELEMENTAR user manual) | Solid fuels                     | -                               |
| 7                           | Determination of CRI and CSR index by gravimetry                                                                                                                                                                                                                                                                    | SPL-Lk-17<br>(ISO 18894; ČSN ISO 18894)                                                               | Coke                            | -                               |
| 8                           | Determination of the composition of heating gases (CH <sub>4</sub> , H <sub>2</sub> , N <sub>2</sub> , O <sub>2</sub> , CO <sub>2</sub> , CO and hydrocarbons C <sub>2</sub> -C <sub>6</sub> ) by gas chromatography with TCD, FID detection and calculation of their gross calorific value and net calorific value | SPL-Lk-18<br>(ČSN EN ISO 6974; ČSN EN ISO 6976)                                                       | Heating gases                   | -                               |
| 9                           | Determination of chemical composition of benzole by gas chromatography (FID)                                                                                                                                                                                                                                        | SPL-Lk-19<br>(ČSN 66 2108:1984)                                                                       | Raw coke oven benzole           | -                               |
| 10                          | Determination of hydrocarbons C <sub>10</sub> – C <sub>40</sub> by gas chromatography with FID detection                                                                                                                                                                                                            | SPL-Lk-20-3A<br>(ČSN EN ISO 9377-2)                                                                   | Surface, waste and ground water | -                               |
| 11                          | Determination of Hg by single-purpose atomic absorption spectrometer                                                                                                                                                                                                                                                | SPL-Lk-23-3A<br>(ČSN 75 7440)                                                                         | Surface, waste and ground water | -                               |
| 12                          | Determination of Hg by single-purpose atomic absorption spectrometer                                                                                                                                                                                                                                                | SPL-Lk-23-3C<br>(ČSN 75 7440)                                                                         | Bulk materials                  | -                               |
| 13                          | Determination of the content of elements (Al, Pb, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Ni, V, Zn) by inductively coupled plasma optical emission spectrometry                                                                                                                                                            | SPL-Lk-21-3A<br>(ČSN EN ISO 11885)                                                                    | Surface, waste and ground water | -                               |
| 14                          | Determination of metal content (Na, K) by flame atomic spectrometry and calculation of oxides from measured values                                                                                                                                                                                                  | SPL-Lk-22-3A<br>(ČSN ISO 9964-1; ČSN ISO 9964-2)                                                      | Surface, waste and ground water | -                               |
| 15                          | Determination of metal content (Co, Cr, Cu, Mn, Mg, Ni, Fe, Zn) by inductively coupled plasma optical emission spectrometry                                                                                                                                                                                         | SPL-Lk-21-3B<br>(ČSN EN 14242)                                                                        | Aluminium and its alloys        | -                               |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                                                                                                                                                             | Test procedure / method identification <sup>2</sup>                                                                                                                             | Tested subject                  | Degrees of freedom <sup>3</sup> |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|
| 16                          | Determination of metal content (Al, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Ni, Sn, Ti, V) by optical emission spectrometry with inductively coupled plasma and calculation of their oxides from measured values | SPL-Lk-21-3C<br>(ČSN EN ISO 10058-3;<br>ČSN EN ISO 21587-3;<br>ČSN EN ISO 21079-3;<br>ČSN EN ISO 26845;<br>ČSN EN ISO 20565-3)                                                  | Bulk materials                  | -                               |
| 17                          | Determination of metal content (Pb, Na, K and Zn) by flame atomic spectrometry and calculation of oxides from measured values                                                                            | SPL-Lk-22-3C<br>(ČSN ISO 7969;<br>ČSN EN ISO 10058-3;<br>ČSN 72 0119;<br>ČSN 72 0120;<br>ČSN EN ISO 26845;<br>ČSN EN ISO 20565-3;<br>ČSN EN ISO 21587-3;<br>ČSN EN ISO 21079-3) | Bulk materials                  | -                               |
| 18                          | Determination of total phosphorus (P <sub>c</sub> ) by spectrophotometry and phosphate (PO <sub>4</sub> <sup>3-</sup> ) by calculation from measured values                                              | SPL-Lk-29<br>(ČSN EN ISO 6878, chap. 7)                                                                                                                                         | Surface, waste and ground water | -                               |
| 19                          | Determination of N-NH <sub>4</sub> <sup>+</sup> by spectrophotometry and ammonium ions and total inorganic nitrogen by calculation from measured values                                                  | SPL-Lk-30<br>(ČSN ISO 7150-1)                                                                                                                                                   | Surface, waste and ground water | -                               |
| 20                          | Determination of dissolved solids (RL105) and dissolved inorganic salts (RAS) by gravimetry                                                                                                              | SPL-Lk-31-3A<br>(ČSN 75 7346;<br>ČSN 75 7347)                                                                                                                                   | Surface, waste and ground water | -                               |
| 21                          | Determination of suspended solids by gravimetry                                                                                                                                                          | SPL-Lk-31-3B<br>(ČSN EN 872)                                                                                                                                                    | Surface, waste and ground water | -                               |
| 22                          | Determination of COD <sub>Cr</sub> by spectrophotometry - HACH analytical commercial set                                                                                                                 | SPL-Lk-32<br>(ČSN ISO 15705)                                                                                                                                                    | Surface, waste and ground water | -                               |
| 23                          | Determination of univalent phenols by spectrophotometry                                                                                                                                                  | SPL-Lk-33<br>(ČSN ISO 6439, method A)                                                                                                                                           | Surface, waste and ground water | -                               |
| 24                          | Determination of N-NO <sub>2</sub> <sup>-</sup> by spectrophotometry and nitrite by calculation from measured values                                                                                     | SPL-Lk-34<br>(ČSN EN 26777)                                                                                                                                                     | Surface, waste and ground water | -                               |
| 25                          | Determination of N-NO <sub>3</sub> <sup>-</sup> by spectrophotometry and nitrate by calculation from measured values                                                                                     | SPL-Lk-35<br>(ČSN ISO 7890-3)                                                                                                                                                   | Surface, waste and ground water | -                               |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                                                                              | Test procedure / method identification <sup>2</sup> | Tested subject                            | Degrees of freedom <sup>3</sup> |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------|---------------------------------|
| 26                          | Determination of chlorides by titration                                                                                   | SPL-Lk-36<br>(ČSN ISO 9297)                         | Surface, waste and ground water           | -                               |
| 27                          | Determination of total and dissolved iron by spectrophotometry                                                            | SPL-Lk-37<br>(ČSN ISO 6332)                         | Surface, waste and ground water           | -                               |
| 28                          | Determination of sulphate by gravimetry                                                                                   | SPL-Lk-38<br>(TNV 75 7476)                          | Surface, waste and ground water           | -                               |
| 29                          | Determination of extractives (EL) by FTIR method                                                                          | SPL-Lk-39-3A<br>(ČSN 75 7506)                       | Surface, waste and ground water           | -                               |
| 30                          | Determination of nonpolar extractives (NEL) by FTIR method                                                                | SPL-Lk-39-3B<br>(ČSN 75 7505:1998)                  | Surface, waste and ground water           | -                               |
| 31                          | Determination of electrical conductivity                                                                                  | SPL-Lk-40<br>(ČSN EN 27888)                         | Surface, waste and ground water           | -                               |
| 32                          | Determination of pH by potentiometry                                                                                      | SPL-Lk-41<br>(ČSN ISO 10523)                        | Surface, waste and ground water           | -                               |
| 33                          | Determination of calcium, the sum of calcium and magnesium by titration and magnesium by calculation from measured values | SPL-Lk-44<br>(ČSN ISO 6058;<br>ČSN ISO 6059)        | Drinking, surface, waste and ground water | -                               |
| 34                          | Determination of fluoride, chloride, nitrite, nitrate, phosphate and sulphate by ion chromatography method                | SPL-Lk-45<br>(ČSN EN ISO 10304-1)                   | Drinking, surface, waste and ground water | -                               |
| 35                          | Determination of Pb and Zn by flame atomic spectrometry                                                                   | SPL-Lk-22-3B<br>(ČSN ISO 5194;<br>ČSN ISO 4192)     | Aluminium and its alloys                  | -                               |

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<sup>3</sup> the laboratory does not apply a flexible approach to the scope of accreditation

**Specification of the scope of accreditation:**

| Ordinal test number | Detailed information on activities within the scope of accreditation (determined analytes)                                                                                                                                                |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9                   | n-hexane, n-heptane, n-octane, n- nonane, benzene, toluene, o-xylenes p- xylenes, m- xylenes, ethylbenzene, propylbenzene, cyclohexane, styrene, thiophene, pyridine, indene, naphthalene, 1-2-methylnaphthalenes, biphenyl, acenaphthene |

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**Specification of the scope of accreditation:**

| Ordinal test number | Detailed information on activities within the scope of accreditation (tested subject)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 - 13,<br>17 - 33 | Waste water - waste water, industrial water, cooling water, circuit water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1, 4, 15, 16        | Bulk materials – charge materials with iron matrix (containing 30 – 70 % of iron – e.g. iron ores, agglomerated ores, iron pellets, iron concentrates, iron, ore mixtures, agglomerates, metallurgical waste with iron matrix (e.g. iron dust, blast-furnace dust, sludge, scale), slag and materials with non-ferrous matrix similar to slag (e.g. blast-furnace slag, steel-furnace slag, slag aggregates), refractory material (e.g. corundum, sand, chrome magnesite, gunite materials), slag-forming materials (e.g. lime, limestone, dolomite, magnesite, casting powders) |
| 1 - 6               | Solid fuels – Solid fuels (solid carbon substances releasing a lot of heat during combustion - e.g. anthracite, black coal, brown coal, lignite coal, turf, wood), coke, solid biofuels                                                                                                                                                                                                                                                                                                                                                                                          |

**7. 5.B Chemical and Physical Analysis Laboratory**

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name                                                                                                      | Test procedure / method identification <sup>2</sup>                                                                                                                                                                      | Tested subject | Degrees of freedom <sup>3</sup> |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------|
| 1                           | Determination of total, metallic iron and FeO by titration and Fe <sub>2</sub> O <sub>3</sub> by calculation from measured values | SPL-Lk-25<br>(ČSN ISO 2597:1993;<br>ČSN 72 2041-10:1992;<br>ČSN 72 2041-12:1992;<br>ČSN 72 0101;<br>ČSN 720110-3;<br>ČSN 72 0111)                                                                                        | Bulk materials | -                               |
| 2                           | Determination of the loss on ignition by gravimetry                                                                               | SPL-Lk-26<br>(ČSN 72 1216;<br>ČSN 72 0103;<br>ČSN 44 1855;<br>ČSN EN 459-2)                                                                                                                                              | Bulk materials | -                               |
| 3                           | Determination of SiO <sub>2</sub> by gravimetry                                                                                   | SPL-Lk-27<br>(ČSN 72 2030-2:1992;<br>ČSN 72 2041-2:1992;<br>ČSN 72 2041-3:1992;<br>ČSN 72 0101;<br>ČSN 72 0105-1;<br>ČSN 72 0105-2;<br>ČSN EN ISO 10058-1;<br>ČSN EN ISO 20565-1;<br>ČSN EN ISO 21587-1;<br>ČSN 72 1216) | Bulk materials | -                               |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                                                            | Test procedure / method identification <sup>2</sup>                                                                                           | Tested subject           | Degrees of freedom <sup>3</sup> |
|-----------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| 4                           | Determination of fluorides by potentiometry                                                             | SPL-Lk-28<br>(ČSN 72 2041-13:1992)                                                                                                            | Bulk materials           | -                               |
| 5                           | Determination of sulphates by gravimetry and sulphites, sulphides by calculation from measured values   | SPL-Lk-46<br>(ČSN 72 0117;<br>TNV 757476)                                                                                                     | Bulk materials           | -                               |
| 6                           | Determination of chlorides by titration                                                                 | SPL-Lk-47<br>(ČSN ISO 9297)                                                                                                                   | Bulk materials           | -                               |
| 7                           | Determination of Al <sub>2</sub> O <sub>3</sub> by titration and Al by calculation from measured values | SPL-Lk-48<br>(ČSN ISO 6830;<br>ČSN 72 0101;<br>ČSN 72 0109-1;<br>ČSN EN ISO 21587-2;<br>ČSN 72 2030-3:1992)                                   | Bulk materials           | -                               |
| 8                           | Determination of Cr <sub>2</sub> O <sub>3</sub> by titration and Cr by calculation from measured values | SPL-Lk-49<br>(ČSN 44 1606)                                                                                                                    | Bulk materials           | -                               |
| 9                           | Determination of CaO by titration and Ca by calculation from measured values                            | SPL-Lk-50<br>(ČSN 72 0101;<br>ČSN 72 0113-1;<br>ČSN 72 0113-2;<br>ČSN EN ISO 10058-2;<br>ČSN EN 459-2;<br>ČSN 72 1216;<br>ČSN 72 2030-5:1992) | Bulk materials           | -                               |
| 10                          | Determination of MgO by titration and Mg by calculation from measured values                            | SPL-Lk-51<br>(ČSN 72 0101;<br>ČSN 72 0114-1;<br>ČSN 72 0114-2;<br>ČSN EN ISO 10058-2;<br>ČSN EN 459-2;<br>ČSN 72 2030-6:1992)                 | Bulk materials           | -                               |
| 11                          | Determination of P by titration and P <sub>2</sub> O <sub>5</sub> by calculation from measured values   | SPL-Lk-52<br>(ČSN 44 1805)                                                                                                                    | Bulk materials           | -                               |
| 12                          | Determination of Si by gravimetry                                                                       | SPL-Lk-53<br>(ČSN ISO 797)                                                                                                                    | Aluminium and its alloys | -                               |

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**Specification of the scope of accreditation:**

| Ordinal test number | Detailed information on activities within the scope of accreditation (tested subject)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 - 11              | Bulk materials – charge materials with iron matrix (containing 30 – 70 % of iron – e.g. iron ores, agglomerated ores, iron pellets, iron concentrates, iron, ore mixtures, agglomerates, metallurgical waste with iron matrix (e.g. iron dust, blast-furnace dust, sludge, scale), slag and materials with non-ferrous matrix similar to slag (e.g. blast-furnace slag, steel-furnace slag, slag aggregates), refractory material (e.g. corundum, sand, chrome magnesite, gunite materials), slag-forming materials (e.g. lime, limestone, dolomite, magnesite, casting powders) |

**Explanations and abbreviations:**

|                 |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| Lv              | Sampling Laboratory                                                                      |
| Le              | Emission Measurement Laboratory                                                          |
| Lh              | Working and Living Environment Laboratory                                                |
| Lq              | Quantometric Laboratory                                                                  |
| Lk              | Chemical and Physical Analysis Laboratory                                                |
| SPL             | Standard Laboratory Procedure of the LABORATORIES CENTRE                                 |
| SPO             | Standard Sampling Procedure of the LABORATORIES CENTRE                                   |
| MoE             | Ministry of Environment                                                                  |
| MoH             | Ministry of Health                                                                       |
| TZL             | Solid Pollutants                                                                         |
| NDIR            | Nondispersive Infrared Spectrometry                                                      |
| TOC             | Total Organic Carbon                                                                     |
| VOC             | Volatile Organic Compounds                                                               |
| PCDD            | Polychlorinated Dibenzodioxins                                                           |
| PCDF            | Polychlorinated Dibenzofurans                                                            |
| PCB             | Polychlorinated Biphenyls                                                                |
| PAH             | Polycyclic Aromatic Hydrocarbons                                                         |
| HCl             | Inorganic compounds of hydrogen chloride                                                 |
| HF              | Inorganic compounds of hydrogen fluoride                                                 |
| SO <sub>2</sub> | Sulphur dioxide                                                                          |
| QAL2            | Calibration and verification of automated measuring systems                              |
| AST             | Annual verification of automated measuring systems                                       |
| GR              | Government Regulation                                                                    |
| IM              | Iron Metallurgy                                                                          |
| SKF             | Technical instructions for testing of samples of steel for the production of SKF bearing |
| IAEA            | International Atomic Energy Agency                                                       |
| ASTM            | American Society for Testing and Materials                                               |
| CRI             | Coke Reactivity Index                                                                    |
| CSR             | Coke strength after reaction with CO <sub>2</sub>                                        |
| IR              | Infrared Spectrometry                                                                    |
| TCD             | Thermal Conductivity Detector                                                            |
| FID             | Flame Ionization Detector                                                                |
| FTIR            | Fourier Transformation Infrared Spectrometry                                             |
| COD             | Chemical Oxygen Demand                                                                   |

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Emission waste gas containing pollutants released in a controlled manner or leaking into atmosphere from air pollution sources

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*"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself. "*