

**The Appendix is an integral part of  
Certificate of Accreditation No. 517/2023 of 03/10/2023**

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

**AmpluServis, a.s.**  
CAB number 1470, Chemical Services Department  
ul. Elektrárenská 5558, 709 74 Ostrava-Třebovice

*Detailed information on activities within the scope of accreditation (subject of testing) is given in the section „Specification of the scope of accreditation“.*

**Tests:**

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Subject of the test	Degrees of freedom <sup>3</sup>
1	Determination of water content by gravimetry	SOP No. P 01 (ČSN 44 1377; ČSN ISO 579; ČSN ISO 687; ČSN EN ISO 18134-2; ČSN EN ISO 18134-3; ČSN EN ISO 21660-3; ČSN P CEN/TS 15414-2; ČSN 44 1310; ČSN EN ISO 16993)	Solid fuels	-
2	Determination of water and ash content by thermogravimetric analyzer	SOP No. P 06 (ASTM D 7582; ČSN 44 1377; ČSN ISO 687; ČSN EN ISO 18134-3; ČSN EN ISO 21660-3; ČSN ISO 1171; ČSN EN ISO 18122; ČSN EN ISO 21656; ČSN 44 1310; ČSN EN ISO 16993)	Solid fuels	-
3	Determination of ash by gravimetry	SOP No. P 02 (ČSN ISO 1171; ČSN EN ISO 18122; ČSN EN ISO 21656; ČSN 44 1310; ČSN EN ISO 16993)	Solid fuels	-
4	Determination of the content of volatile combustible matter by gravimetry	SOP No. P 03 (ČSN ISO 562; ČSN EN ISO 18123; ČSN EN ISO 22167; ČSN 44 1310; ČSN EN ISO 16993)	Black coal, coke, solid biofuels, solid alternative fuels	-
5	Determination of the content of volatile combustible matter by gravimetry	SOP No. P 04 (ČSN ISO 5071-1; ČSN 44 1310)	Brown coal	-

**The Appendix is an integral part of  
Certificate of Accreditation No. 517/2023 of 03/10/2023**

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

**AmpluServis, a.s.**

CAB number 1470, Chemical Services Department

ul. Elektrárenská 5558, 709 74 Ostrava-Třebovice

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Subject of the test	Degrees of freedom <sup>3</sup>
6	Determination of gross calorific value by calorimetry and calculation of net calorific value	SOP No. P 05 (ČSN ISO 1928; ČSN EN ISO 18125; ČSN EN ISO 21654; ČSN 44 1310; ČSN EN ISO 16993)	Solid fuels	-
7	Determination of sulphur content by analyzer with IR detection and calculation of specific sulphur content	SOP No. P 07 (ČSN ISO 19579; ČSN 44 1310; ČSN EN ISO 16993)	Solid fuels	-
8	Determination of carbon, hydrogen, nitrogen by Dumas method using elementary analyzer and calculation of oxygen and emission factor	SOP No. P 12 (ČSN ISO 29541; ČSN EN ISO 16948; ČSN EN ISO 21663; ČSN ISO 17247; ČSN 44 1310; ČSN EN ISO 16993)	Solid fuels and combustion products	-
9	Determination of chlorine using Eschka mixture - titration method acc. to Volhard	SOP No. A 38 (ČSN ISO 587; ČSN 44 1310; ČSN EN ISO 16993)	Solid fuels	-
10	Determination of biomass content in SRF by selective dissolution method	SOP No.A 05 (ČSN EN ISO 21644, Annex B7 and B9)	Solid recovered fuels	-
11	Determination of flash by Cleveland open cup method	SOP No.O 01 (ČSN EN ISO 2592)	Oils and petroleum products	-
12	Coulometric determination of water - Karl-Fischer method	SOP No.O 02 (ČSN ISO 760; ČSN EN ISO 12937)	Oils and petroleum products	-
13	Determination of demulsifying characteristics by separation method	SOP No.O 03 (ČSN ISO 6614, ASTM D 1401)	Oils and petroleum products	-
14	Determination of kinematic viscosity by Ubbelohde viscosimeter	SOP No.O 04 (ČSN EN ISO 3104)	Oils and petroleum products	-
15	Determination of flash point. Pensky-Martens closed cup method	SOP No.O 05 (ČSN EN ISO 2719)	Oils and petroleum products	-

**The Appendix is an integral part of  
Certificate of Accreditation No. 517/2023 of 03/10/2023**

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

**AmpluServis, a.s.**  
CAB number 1470, Chemical Services Department  
ul. Elektrárenská 5558, 709 74 Ostrava-Třebovice

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Subject of the test	Degrees of freedom <sup>3</sup>
16	Microscopic determination of cleanliness level by automatic particle counter	SOP No.O 06 (ČSN ISO 4406; SAE AS 4059)	Oils and petroleum products	-
17	Determination of acid value by titration	SOP No.O 10 (ČSN EN ISO 660; ČSN ISO 6618; ČSN EN 62021-1)	Oils and petroleum products	-
18	Determination of breakdown voltage at power frequency with the DTA 100 C tester	SOP No.O 15 (ČSN EN 60156)	Oils and petroleum products	-
19	Determination of electrical conductivity	SOP No.A 01 (ČSN EN 27 888)	Drinking, surface, waste and power plant service water	-
20	Determination of pH by potentiometry	SOP No.A 02 (ČSN ISO 10523)	Drinking, surface, waste and power plant service water	-
21	Determination of dissolved solids, dried and annealed (DIS), by gravimetry	SOP No.A 03 (ČSN 75 7346)	Drinking, surface, waste and power plant service water	-
22	Determination of suspended solids (NL) by gravimetry	SOP No.A 04 (ČSN EN 872)	Drinking, surface, waste and power plant service water	-
23	Determination of the content of chlorides by mercury metric method	SOP No.A 12 (ČSN ISO 5790:1997)	Drinking, surface, waste and power plant service water	-
24	Determination of iron by spectrophotometry	SOP No.A 17 (ČSN ISO 6332)	Drinking, surface, waste and power plant service water	-
25	Titrimetric determination of chemical oxygen demand using permanganate (COD <sub>Mn</sub> )	SOP No.A 20 (ČSN EN ISO 8467)	Drinking, surface, waste and power plant service water	-
26	Determination of dissolved sulphate by gravimetry	SOP No.A 23 (TNV 75 7476)	Drinking, surface, waste and power plant service water	-
27	Determination of dissolved sulphates by spectrophotometry with HACH commercial analytical kit	SOP No. A 23 (HACH Manual)	Drinking, surface, waste and power plant service water	-

**The Appendix is an integral part of  
Certificate of Accreditation No. 517/2023 of 03/10/2023**

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

**AmpluServis, a.s.**

CAB number 1470, Chemical Services Department

ul. Elektrárenská 5558, 709 74 Ostrava-Třebovice

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Subject of the test	Degrees of freedom <sup>3</sup>
28	Determination of ammonium by spectrophotometry with HACH commercial analytical kit and ammonia nitrogen (N-NH <sub>3</sub> ) by calculation from measured values	SOP No.A 24 (ČSN ISO 7150-1; HACH Manual)	Drinking, surface, waste and power plant service water	-
29	Determination of nitrate by spectrophotometry with HACH commercial analytical kit and nitrate nitrogen (N-NO <sub>3</sub> ) by calculation from measured values	SOP No.A 26 (ČSN ISO 7890-3; HACH Manual)	Drinking, surface, waste and power plant service water	-
30	Determination of total phosphorus by spectrophotometry with HACH analytical commercial set	SOP No.A 28 (ČSN EN ISO 6878; HACH Manual)	Drinking, surface, waste and power plant service water	-
31	Determination of chemical oxygen demand with dichromate (COD <sub>Cr</sub> ) by spectrophotometry with HACH analytical commercial set	SOP No.A 31 (ČSN ISO 15705; HACH Manual)	Drinking, surface, waste and power plant service water	-
32	Determination of nitrite by spectrophotometry with HACH commercial analytical kit and nitrite nitrogen (N-NO <sub>2</sub> ) by calculation from measured values	SOP No.A 27 (ČSN EN 26777; HACH Manual)	Drinking, surface and power plant service water	-
33	Determination of total nitrogen by spectrophotometry with HACH analytical commercial set	SOP No.A 25 (ČSN EN ISO 11905-1; HACH Manual)	Drinking, surface, waste and power plant service water	-
34	Determination of the sum of calcium and magnesium by EDTA titrimetric method and magnesium by calculation from measured values	SOP No.A 08 (ČSN ISO 6058; ČSN ISO 6059)	Drinking, surface, waste and power plant service water	-
35	Determination of calcium by EDTA titrimetric method	SOP No.A 08 (ČSN ISO 6058)	Drinking, surface, waste and power plant service water	-

**The Appendix is an integral part of  
Certificate of Accreditation No. 517/2023 of 03/10/2023**

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

**AmpluServis, a.s.**  
CAB number 1470, Chemical Services Department  
ul. Elektrárenská 5558, 709 74 Ostrava-Třebovice

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Subject of the test	Degrees of freedom <sup>3</sup>
36	Determination of biochemical oxygen demand (BOD <sub>5</sub> ) manometrically with HACH commercial analytical set	SOP No.A 32 (HACH Manual)	Drinking, surface, waste and power plant service 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 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

**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (subject of testing)
1, 2, 3, 6, 7, 8, 9	Solid fuels – black coal, brown coal, coke, solid biofuels, solid alternative fuels
8	Combustion products – ash, cinder, slag
19 - 36	Power plant service water – raw, supply, cooling, filtered, boiler, clarified, recirculation and demineralized water, condensates, condensed vapours and other types of service water

Explanations:

EDTA - Ethylenediaminetetraacetic Acid  
 IR detection - Infrared Spectroscopy  
 TAP - Solid Alternative Fuels  
 RAS - Dissolved Inorganic Salts  
 ASTM - American Society for Testing and Material (American standard)  
 SAE AS - Society of Automotive Engineers Aerospace Standard (American standard)  
 SOP - Standard Operating Procedure