

**The Appendix is an integral part of
Certificate of Accreditation No. 165/2023 of 05/04/2023**

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

ČEZ, a. s.

CAB number 1530, Elektrárna Dětmarovice

č.p. 1202, 735 71 Dětmarovice

The laboratory is qualified to carry out independent sampling.

Tests:

Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Subject of the test	Degrees of freedom³
1	Determination of electrical conductivity	SPP V_01 (ČSN EN 27888)	Waste, drinking and inlet surface water, water from technological processes, condensate, feed water	-
2	Determination of pH by potentiometry	SPP V_02 (ČSN ISO 10523)	Waste, drinking and inlet surface water, water from technological processes, condensate, feed water	-
3	Determination of the sum of calcium and magnesium, EDTA titrimetric method	SPP V_03 (ČSN ISO 6059)	Drinking and inlet surface water, water from technological processes, condensate, feed water	-
4	Determination of nitrite nitrogen and nitrites by calculation	SPP V_05 (ČSN EN 26777)	Waste, drinking and inlet surface water, water from technological processes, condensate, feed water	-
5	Determination of calcium, EDTA titrimetric method, determination of magnesium by calculation	SPP V_06 (ČSN ISO 6058)	Drinking and inlet surface water, water from technological processes, condensate, feed water	-
6	Determination of iron by spectrophotometry with 1,10-phenanthroline	SPP V_08 (ČSN ISO 6332)	Waste, drinking and inlet surface water, water from technological processes, condensate, feed water	-
7	Determination of ammonia nitrogen and ammonium by calculation	SPP V_13 (ČSN ISO 7150-1)	Waste and inlet surface water, water from technological processes, condensate, feed water	-
8	Determination of chloride, Mohr's titration method	SPP V_15 (ČSN ISO 9297)	Waste, drinking and inlet surface water, water from technological processes, condensate, feed water	-
9	Determination of sulphate by gravimetry with barium chloride	SPP V_16 (TNV 75 7476)	Waste and inlet surface water, water from technological processes, condensate, feed water	-
10	Determination of nitrate nitrogen and nitrates by calculation	SPP V_19 (ČSN ISO 7890-3)	Waste, drinking and inlet surface water, water from technological processes, condensate, feed water	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Subject of the test	Degrees of freedom ³
11	Determination of phosphorus by spectrophotometry using ammonium molybdate	SPP V_21 (ČSN EN ISO 6878)	Waste and inlet surface water, water from technological processes, condensate, feed water	-
12	Determination of chemical oxygen demand with dichromate (COD _{Cr}) by spectrophotometry	SPP V_23 (ČSN ISO 15705)	Waste and inlet surface water, water from technological processes, condensate, feed water	-
13	Determination of biochemical oxygen demand (BOD ₅) by iodometry – dilution method, method for undiluted samples	SPP V_24 (ČSN EN ISO 5815-1; ČSN EN 1899-2)	Waste and inlet surface water	-
14	Determination of suspended solids (SS) by gravimetry	SPP V_25 (ČSN EN 872)	Waste, drinking and inlet surface water, water from technological processes, condensate, feed water	-
15	Determination of dissolved solids (DS) and dissolved inorganic salts (DIS) by gravimetry	SPP V_26 (ČSN 75 7346; ČSN 75 7347)	Waste and inlet surface water, water from technological processes, condensate, feed water	-
16	Determination of water content, gravimetric method	SPP P_02 (ČSN 44 1377)	Black coal, brown coal, coke, anthracite	-
17	Determination of ash, gravimetric method	SPP P_03 (ČSN ISO 1171)	Black coal, brown coal, coke, anthracite	-
18	Determination of total sulphur by Eschka method	SPP P_04 (ČSN 44 1379)	Black coal, brown coal, coke, anthracite	-
19	Determination of gross calorific value by the bomb calorimetric method and calculation of net calorific value	SPP P_05 (ČSN ISO 1928)	Black coal, brown coal, coke, anthracite	-
20	Determination of the content of volatile combustible matter, gravimetric method	SPP P_07 (ČSN ISO 562)	Black coal, anthracite	-
21	Determination of combustibles, gravimetric method	SPP P_08 (ČSN ISO 1171)	VEP (slag, ash)	-
22	Determination of sulphur by infrared spectrometry	SPP P_10 (ČSN ISO 19579)	Black coal, brown coal, coke, anthracite	-
23	Determination of loss on ignition (950 °C), gravimetric method	SPP VEP_01 (ČSN EN 196-2, chap. 5.4)	VEP (slag, ash)	-
24	Determination of water, Coulometric Karl Fischer titration method	SPP O_01 (ČSN EN ISO 12937)	Oils	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Subject of the test	Degrees of freedom ³
25	Determination of kinematic viscosity by Ubbelohde glass capillary kinematic viscometer	SPP O_02 (ČSN EN ISO 3104)	Oils	-
26	Determination of the code of contamination by solid particles	SPP O_03 (ČSN ISO 4406)	Oils	-
27	Determination of the breakdown voltage, method of determination by Dieltest DTA 100	SPP O_04 (ČSN EN 60156)	Oils	-

¹ asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises

² 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)

³ the laboratory does not apply a flexible approach to the scope of accreditation

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Sampled object
1	Waste water sampling (manual sampling, automatic sampler)	SPP VV_01 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN ISO 5667-14)	Waste water

¹ 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 edition of the specified procedure is used (including any changes)

Explanations:

SPP: Standard Working Procedure of the Testing Laboratory

EDTA: Ethylenediaminetetraacetic Acid