



EA MLA Signatory  
Český institut pro akreditaci, o.p.s.  
Olšanská 54/3, 130 00 Praha 3

issues

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

# CERTIFICATE OF ACCREDITATION

No. 340/2024

Výzkumný ústav maltovin Praha, s.r.o.  
with registered office Na Cikánce 614/2, Radotín, 153 00 Praha 5,  
Company Registration No. 49618377

for the Testing Laboratory No. 1447  
Testing Laboratory

Scope of accreditation:

Chemical analyses of cement, cement-containing products, waters and extracts, analyses of fuels and solid recovered fuels, determination of particle size distribution 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 Conformity Assessment 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.: 29/2023 of 26. 1. 2023, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **26. 1. 2028**

Prague: 11. 7. 2024



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



**The Appendix is an integral part of  
Certificate of Accreditation No. 340/2024 of 11/07/2024**

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

**Výzkumný ústav maltovin Praha, s.r.o.**  
CAB number 1447, Testing Laboratory  
Na Cikánce 614/2, Radotín, 153 00 Praha 5

*Detailed information on activities within the scope of accreditation (tested subject / source literature) 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>	Tested subject	Degrees of freedom <sup>3</sup>
1	Determination of water-soluble chromium (Cr <sup>6+</sup> ) content by photometry	SOP-Z-01 (ČSN EN 196-10)	Cement and cement-containing preparations	-
2	Determination of Ag, Al, Ba, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sr, Zn by flame AAS method	SOP-Z-02.1 (ČSN ISO 7980; ČSN ISO 9964-1; ČSN ISO 9964-2; ČSN ISO 9964-3; ČSN ISO 8288; Manual to AAS SOLAAR)	Drinking and waste water, aqueous extracts of building materials <sup>3</sup>	-
3	Determination of Cd, Co, Cr, Cu, Ni, Pb by flameless AAS method	SOP-Z-02.2 (ČSN EN ISO 15586; Manual to AAS SOLAAR)	Drinking and waste water, aqueous extracts of building materials <sup>3</sup>	-
4	Gravimetric determination of non-biomass content by selective dissolution method and determination of biomass content and other parameters by calculation from measured values	SOP-Z-03 (ČSN EN ISO 21644, Annex B)	Solid recovered fuels (SAF)	-
5	Determination of total water content by gravimetry	SOP-Z-03, cl. 5.2 (ČSN P CEN/TS 15414-1)	Solid recovered fuels (SAF)	-
6	Determination of ash by gravimetry	SOP-Z-03, cl. 5.4 (ČSN EN ISO 21656)	Solid recovered fuels (SAF)	-
7	Determination of pH by potentiometry	SOP-Z-04 (ČSN ISO 10523)	Drinking and waste water, aqueous extracts of building materials <sup>3</sup>	-
8	Determination of conductivity	SOP-Z-05 (ČSN EN 27888)	Drinking and waste water, aqueous extracts of building materials <sup>3</sup>	-
9	Determination of ammonium (NH <sub>4</sub> <sup>+</sup> ) by photometry	SOP-Z-06 (ČSN ISO 7150-1)	Drinking and waste water, aqueous extracts of building materials <sup>3</sup> and power industry by-products (VEP)	-
10	Determination of carbon content by combustion method by infrared spectrometry	SOP-Z-03, cl. 5.5 (ČSN EN ISO 21663; Manual to the ELTRA CS500 analyzer)	Solid recovered fuels (TAP)	-

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**Výzkumný ústav maltovin Praha, s.r.o.**  
CAB number 1447, Testing Laboratory  
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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>
11	Determination of particle distribution and measurement of particle size on the principle of laser beam diffraction	SOP-Z-07 (Operating instructions Analysette 22 Laser Particle Sizer FRITSCHE Nano Tec, Software manual Mas Control Analysette 22)	Solid materials (0.01 µm to 2,100 µm particles)	-
12	Determination of gross calorific value by calorimetry and net calorific value by calculation from measured values <sup>4</sup>	SOP-Z-08 (ČSN ISO 1928; ČSN EN ISO 18125; ČSN EN ISO 21654; ČSN EN 15170; ČSN P CEN/TS 16023; ČSN DIN 51900-2)	Solid fuels, solid recovered fuels (TAP)	-

<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

**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (tested subject)
2, 3, 7, 8, 9	aqueous extract according to the MoE Regulation No. 294/2005 Coll., tab. 2.1, Regulation No. 273/2021 Coll., Annex 5, Annex 6, Annex 10 or according to the MoH Regulation No. 409/2005 Coll.

**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
4	biomass content expressed in % of total carbon; calorific value of biomass fraction; calorific value of non-biomass fraction; biomass content expressed as a percent of calorific value; non-biomass content expressed as a percent of calorific value; emission factor (CO <sub>2</sub> ) of the whole sample

**Explanatory notes:**

SOP-Z Standard Operating Procedure - Testing procedure (internal testing procedure prepared by the testing laboratory)

*"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."*

