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. **476/2025**

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, water and extracts, analyses of fuels and solid alternative fuels, determination of particle size distribution; concrete testing – chloride migration coefficient, carbonation resistance 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.: 340/2024 of 11/07/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **26/01/2028**

Prague: 18/09/2025

Český institut pro akreditaci, o.p.s. «CAI»

Signed in the Czech original:
Jan Velíšek on 18/09/2025

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

This translation of the Czech original has been issued by: Eliška Frycová

The Appendix is an integral part of
Certificate of Accreditation No. 476/2025 of 18/09/2025

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

The laboratory provides opinions and interpretations of the test results.
Detailed information on activities within the scope of accreditation (determined analytes) is given in the section „Specification of the scope of accreditation".

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of water-soluble chromium (Cr^{6+}) 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[3]	-
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[3]	-
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[3]	-
8	Determination of conductivity	SOP-Z-05 (ČSN EN 27888)	Drinking and waste water, aqueous extracts of building materials[3]	-
9	Determination of ammonium ($NH4^{+}$) by photometry	SOP-Z-06 (ČSN ISO 7150-1)	Drinking and waste water, aqueous extracts of building materials[3] and power industry by-products (VEP)	-

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Certificate of Accreditation No. 476/2025 of 18/09/2025

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

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
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)	-
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 FRITSCH 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[4]	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)	-
13	Determination of the chloride migration coefficient by the chloride ion migration method	SOP-Z-09 (ČSN EN 12390-18+A1)	Concrete	
14	Determination of carbonation resistance by the accelerated carbonation method	SOP-Z-10 (ČSN EN 12390-12)	Concrete	

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

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

[4] laboratory determination of hydrogen for calculating calorific value is performed by an external testing 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)
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_2) 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. "