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. 254/2022

ÚJV Řež, a. s.
with registered office Hlavní 130, Řež, 250 68 Husinec, Company Registration No. 46356088

to the Testing Laboratory No. **1093.2**
Testing Laboratory of the Operation Support of Energy Units Department

Scope of accreditation:

General corrosion tests, hardness tests, determination of chemical composition of inorganic materials, metallographic tests 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 Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the 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.: 175/2021 of 19. 3. 2021, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **27. 5. 2027**

Prague: 27. 5. 2022

Český institut pro akreditaci, o.p.s.
NÁRODNÍ AKREDITAČNÍ ORGÁN
-3-

Lukáš Burda
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute
Public Service Company

The Appendix is an integral part of
Certificate of Accreditation No. 254/2022 of 27/05/2022

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

ÚJV Řež, a. s.

Testing Laboratory of the Operation Support of Energy Units Department
Hlavní 130, Řež, 250 68 Husinec

Tests:

Ordinal number [1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
1	Determination of alloy elements by optical emission spectrometry - mobile instrument[3]	PP 2302 154 (Oxford Instruments INCA Energy 350/Wave 700 Service manuals, Oxford Instruments AZtec User Manual)	Iron or nickel based metallic materials
2	Determination of alloy elements by optical emission spectrometry - stationary instrument[3]	PP 2302 383 (Q4 Tasman, User manual, BAS Rudice s.r.o.)	Iron, copper or aluminium based metallic materials
3	Metallographic determination of apparent grain size	PP 2302 382 (ČSN EN ISO 643; ČSN 42 0462; GOST 5639; ASTM E112)	Metallic material
4	Test of resistance to intergranular corrosion	PP 2302 146 (ČSN EN ISO 3651-1; ČSN EN ISO 3651-2; GOST 6032)	Corrosion-resistant steels and alloys
5	Determination of chemical composition of materials, structural components and phases by local microanalysis	PP 2302 155 (Oxford Instruments INCA Energy 350/Wave 700 Service manuals, Oxford Instruments AZtec User Manual)	Inorganic materials
6	Vickers hardness test	PP 2302 153 (ČSN EN ISO 6507-1)	Metallic material

[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] superscript at the test procedure/method name is a reference to the table of determined analytes

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Range of determined parameters

Test ordinal number	Specification of the range of determined parameters
1	Carbon and low-alloy steels: C, Si, Mn, Cr, Ni, Cu, Mo, V, W, Al, Nb, Ti, B, P, S
	Chromium steels: C, Si, Mn, Cr, Ni, Cu, Mo, V, W, Nb, P, S
	Chromium-nickel steels C, Si, Mn, Cr, Ni, Cu, Mo, Ti, Co, Nb, V, W, Al, P, S
	Nickel alloys: C, Fe, Cr, Cu, Mo, Co, W, Mn, Al, Nb, Ti, Si, Ta, Hf
2	**Determination ranges for individual types of steel and cast iron:**
	Low-alloy (carbon) steels Fe110: C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, As, B, Bi, Ce, Co, Nb, Pb, Sb, Sn, Ta, La, Ti, V, W, Zr, N
	Free-cutting steels Fe115: C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, As, B, Bi, Ce, Co, Nb, Pb, Sb, Sn, Ta, La, Ti, V, W, Zr
	Cast iron Fe120: C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, As, B, Bi, Ce, Co, Mg, Nb, Pb, Sb, Sn, La, Ti, V, W, Zn, Zr
	Chromium and chromium-nickel steels Fe130: C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, As, B, Co, Nb, Sn, Ti, V, W, N
	Tool steels Fe140: C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, As, Co, Sn, V, W
	Manganese steels Fe150: C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, Sn, V
	Determination ranges for individual types of aluminium alloys:
	Al-Si Al120: Si, Fe, Cu, Mn, Mg, Cr, Ni, Zn, Ti, Be, Bi, Ca, Co, Ga, Na, P, Pb, Sn, Sr, V, Zr, Sb, Hg
	Al-Cu Al130: Si, Fe, Cu, Mn, Mg, Cr, Ni, Zn, Ti, Ag, Be, Bi, Cd, Co, Li, Pb, Sn, V, Zr, Sb
	Al-Mg Al140: Si, Fe, Cu, Mn, Mg, Cr, Ni, Zn, Ti, Be, Bi, Ca, Cd, Ga, Li, Na, Pb, Sn, V, Zr
	Al-Zn Al150: Si, Fe, Cu, Mn, Mg, Cr, Ni, Zn, Ti, Be, Ga, Pb, Sn, V, Zr
	Determination ranges for individual types of copper alloys:
	Cu-Zn Cu120: Zn, Pb, Sn, P, Mn, Fe, Ni, Si, Al, As, Be, Ag, Bi, Cd, Sb
	Cu-Si Cu121: Zn, Pb, Sn, P, Mn, Fe, Ni, Si, Mg, Cr, Al, S, As, Co, Sb
	Cu-Zn/Ni Cu130: Zn, Pb, Sn, P, Mn, Fe, Ni, Si, Mg, Al, As, Ag, Co, Bi, Sb
	Cu-Ni Cu140: Zn, Pb, Sn, P, Mn, Fe, Ni, Si, Mg, Cr, Al, S, Be, Co, Zr, Ti, C, Nb

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Test ordinal number	Specification of the range of determined parameters
	Cu-Sn/Pb Cu160: Zn, Pb, Sn, P, Mn, Fe, Ni, Si, Mg, Al, As, Ag, Sb
	Cu-Al Cu170: Zn, Pb, Sn, P, Mn, Fe, Ni, Si, Mg, Cr, Al, As
	Cu-Be/Co/Ag Cu180: Zn, Pb, Sn, Mn, Fe, Ni, Si, Cr, Al, Be, Ag, Co