



EA MLA Signatory
Český institut pro akreditaci, o.p.s.
Hájkova 2747/22, Žižkov, 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. 170/2025

Alleima CZ spol. s r.o.
with registered office **Vítězslava Nezvala 5502, 430 01 Chomutov,**
Company Registration No. **60278773**

for the Testing Laboratory No. **1364**
Laboratory

Scope of accreditation:

Testing of mechanical, corrosive and metallographic properties of metals and spectrometric analysis of metals 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.: 108/2024 of 06/03/2024, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **07/04/2030**

Prague: 07/04/2025



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: 170/2025 of 07/04/2025**

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

Alleima CZ, spol. s r.o.
CAB number 1364, Laboratory
Vítězslava Nezvala 5502, 430 01 Chomutov

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	Corrosion resistance testing			
1.1	Pitting corrosion resistance test	ČSN EN ISO 17781, cl. 5.5; ASTM G48, cl. 8, 10, 12; ASTM G46; ASTM A923, cl. 14 to 20; Procedure WI-03807 (ASTM G48, cl. 8); Procedure WI-03808 (ASTM G48, cl. 8; ASTM G46)	Corrosion resistant metals	-
1.2	Test of susceptibility to intergranular attack – STRAUSS test	ČSN EN ISO 3651-2, cl. 6.1; ASTM A262, cl. 37 to 46; ASTM A763, cl. 23 to 29; Procedure WI-03810 (ČSN EN ISO 3651-2, cl. 6.1; ASTM A262, cl. 37 to 46)	Corrosion resistant metals	-
1.3	Test of susceptibility to intergranular attack – HUEY test	ČSN EN ISO 3651-1; ASTM A262, cl. 26 to 36; Procedure WI-03811 (ČSN EN ISO 3651-1; ASTM A262, cl. 26 to 36)	Corrosion resistant metals	-
1.4	Test of susceptibility to intergranular attack – STREICHER test	ASTM A262, cl. 14 to 25; ASTM G28, cl. 3 to 10; ASTM A763, cl. 11 to 16; Procedure WI-13129 (ASTM A262, cl. 14 to 25; ASTM G28, cl. 3 to 10; ASTM A763, cl. 11 to 16)	Corrosion resistant metals	-
1.5	Test of resistance to intergranular corrosion	ČSN EN ISO 3651-2, cl. 6.2, 6.3; ASTM A763, cl. 17 to 22	Corrosion resistant metals	-



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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
2	Hardness testing			
2.1	Hardness test acc. to Rockwell	ČSN EN ISO 6508-1; ASTM E18; ASTM A370, cl. 16 to 19; Procedure WI-03824 (ČSN EN ISO 6508-1; ASTM E18)	Metals	-
2.2	Hardness test acc. to Vickers	ČSN EN ISO 6507-1; ASTM E92; Procedure WI-03812 (ČSN EN ISO 6507-1; ASTM E92)	Metals	-
3	Technological and mechanical tests			
3.1	Tube flattening test	ČSN EN ISO 8492; ASTM A1016/ A1016M, cl. 18; ASTM A530/ A530M, cl. 21; ASTM A999/ A999M, cl. 20; ASTM A370, cl. A2.5.1.1; Procedure WI-03814 (ČSN EN ISO 8492; ASTM A1016/ A1016M, cl. 18; ASTM A530/ A530M, cl. 21; ASTM A999/ A999M, cl. 20; ASTM A370, cl. A2.5.1.1)	Metallic tubes	-
3.2	Tube flaring test	ČSN EN ISO 8493; ASTM A1016/ A1016M, cl. 21; ASTM A370, cl. A2.5.1.5; ASTM A789/ A789M, cl. 9.2; ASTM B163, cl. 6.3; ASTM B829, cl. 5.1; Procedure WI-03814 (ČSN EN ISO 8493; ASTM A1016/ A1016M, cl. 21; ASTM A370, cl. A2.5.1.5; ASTM A789/ A789M, cl. 9.2; ASTM B163, cl. 6.3; ASTM B829, cl. 5.1)	Metallic tubes	-



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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
3.3	Tensile test at ambient (room) temperature	ČSN EN ISO 6892-1; ASTM E8; ASTM A370, cl. 7 to 14; ASTM A1058, cl. 5 to 12; Procedure WI-04168 (ČSN EN ISO 6892-1; ASTM E8; ASTM A370, cl. 7 to 14)	Metals	-
3.4	Tensile test at elevated temperature	ČSN EN ISO 6892-2; ASTM E21; Procedure WI-04180 (ČSN EN ISO 6892-2; ASTM E21)	Metals	-
3.5	Notched bar impact test - Charpy method	ČSN ISO 148-1; ČSN EN ISO 17781, cl. 5.4; ASTM E23; ASTM A370, cl. 20 to 29; ASTM A1058, cl. 18 to 25; ASTM A923, cl. 8 to 13; Procedure WI-04182 (ČSN ISO 148-1; ASTM E23; ASTM A370, cl. 20 to 29)	Metals	-
3.6	Bend test	ASME BPVC Sec. IX cl. QW-160, QW161.2, QW-161.3, QW161.4, QW-162, QW-163; Procedure WI-04157 (ASME BPVC Sec. IX cl. QW-160, QW-161.2, QW-161.3, QW161.4, QW-162, QW-163)	Welded joints of metallic tubes	-
4	Metallographic assessment			
4.1	Determination of grain size	ČSN EN ISO 643; ASTM E112; Procedure WI-03822 (ASTM E112)	Corrosion resistant metals	-



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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
4.2	Sigma phase content determination	ČSN EN ISO 17781, cl. 5.2; ASTM A923, cl. 3 to 7; Procedure WI-03817	Duplex steel tubes and welds	-
4.3	Ferrite/austenite volume fraction determination	ČSN EN ISO 17781, cl. 5.3; ASTM E562; Procedure WI-03816 (ASTM E562)	Duplex steel tubes and welds	-
4.4	Macroscopic examination of weld section	ČSN EN ISO 17639; Procedure WI-03937 (ČSN EN ISO 17639)	Welded joints of metallic tubes	-
4.5	Determination of the content of non-metallic inclusions	ČSN ISO 4967; ASTM E45; Procedure WI-04175 (ČSN ISO 4967; ASTM E45)	Corrosion resistant metals	-
4.6	Test of resistance to intergranular corrosion - evaluation of microstructure	ASTM A262, cl. 4 to 13; ASTM A763, cl. 5 to 10	Corrosion resistant metals	-
5	Spectrometric analysis			
5.1	Determination of elements concentration by optical emission spectrometry	Procedure WI-04178 (ASTM E1086)	Highly alloyed steels and nickel alloys	-

- 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

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
5.1	Al, B, C, Co, Cr, Cu, Fe, Mn, Mo, N, Nb, Ni, P, Pb, S, Si, Ta, Ti, V, W

"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."

