



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. 398/2025

DEFEKTA NDT s.r.o.
with registered office Beranových 130, 199 00 Praha 9 - Letňany
Company Registration No. 29022169

for the Testing Laboratory No. **1079**
Testing Laboratory for Materials

Scope of accreditation:

Mechanical, metallographic, chemical and corrosion tests of metallic materials; non-destructive testing of welds and materials 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.: 30/2023 of 26/01/2023, and/or any administrative acts building upon it.

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

Prague: 30/07/2025



Signed in the Czech original:
Jan Velíšek on 30/07/2025

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: 398/2025 of 30/07/2025**

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

DEFEKTA NDT s.r.o.

CAB number 1079, Testing Laboratory for Materials
Kampelíkova 908, Kukleny, 500 04 Hradec Králové

The laboratory applies a flexible approach to the scope of accreditation.

The current list of activities carried out within the flexible scope is available from the laboratory manager in the form of the „List of activities within the flexible scope of accreditation“.

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	Destructive tests			
1.1	Tensile test	PP 1 (ČSN EN ISO 6892-1; ČSN EN ISO 5178; ČSN EN ISO 4136; ČSN EN ISO 6892-2; ASTM E8; ASTM E21; ASME Code Sect. II, Part A, SA 370; ASME Code Sect. IX, QW 150; ASME Code Sect. IX, QW 462; ASME CODE Sect I, PW 53)	Metallic materials	A, D
1.2	Impact bend test	PP 2 (ČSN ISO 148-1; ČSN EN ISO 148-2; ČSN EN ISO 148-3; ČSN EN ISO 9016; ASME CODE Sect VIII, DIV 1, UG 84; ASME CODE Sect VIII, DIV 2, 3.11.7)	Metallic materials	A, D
1.3	Bend test	PP 3 (ČSN EN ISO 7438; ČSN EN ISO 5173; ASTM E290; ASME Code Sect. II, Part A, SA 370; ASME Code Sect. IX, QW 160; ASME Code Sect. IX, QW 462; ASME Code Sect. IX, QW 466; ASME CODE Sect I, PW 53)	Metallic materials	A, D

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1.4	Hardness tests	PP 4 (ČSN EN ISO 6506-1 (HBW 2,5, HBW 10 – for steels only); ASTM E10; ASME Code Sect. II, Part A, SA 370; ČSN EN ISO 6507-1 (HV 5, HV 10, HV 30); ČSN EN ISO 9015-1; ASTM E384; ASTM E18; ČSN EN ISO 6508-1 (HRC only))	Metallic materials	A, D
1.5*	Determination of selected elements by optical emission method	PP 5 (ASME CODE Sect II, Part A, SA/A 353; ASME CODE Sect II, Part A, SA/A 751)	Metallic materials	A, B, D
1.6	Determination of resistance to intergranular corrosion of stainless steels	PP 6 (ČSN EN ISO 3651-2; ASTM A262, Practice E; GOST 6032-17)	Metallic materials	A, D
1.7	Determination of resistance to intergranular corrosion of stainless steels by measuring mass loss	PP 7 (ASTM A262, Practice C; ČSN EN ISO 3651-1; ASTM A262, Practice B)	Metallic materials	A, D
1.8	Determination of non-metallic inclusions	PP 8 (ČSN ISO 4967; GOST 1778-22)	Metallic materials	A, D
1.9	Micrographic determination of apparent grain size	PP 9 (ČSN EN ISO 643, cl. 6.3.1, 6.3.2; ASTM E112; GOST 5639-82)	Metallic materials	A, D
1.10	Metallographic evaluation of wrought metallurgical products	PP 10 (ČSN 42 0469)	Metallic materials	A, D

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1.11	Macroscopic and microscopic inspection	PP 11 (ČSN EN ISO 6520-1; ČSN EN ISO 5817; ČSN EN ISO 17639; ČSN EN ISO 15614-1; ČSN EN ISO 15614-8; ASME CODE Sect. IX, QW 183; ASME CODE Sect IX, QW 184; ASME CODE Sect IX, QW 193; ASME CODE Sect IX, QW 462; ASME CODE Sect IX, QW 470; ČSN 42 0467; ASTM E340; GOST 10243-75)	Metallic materials	A, D
1.12	Fracture test on welds	PP 12 (ČSN EN ISO 9017; ČSN EN ISO 5817; ASME CODE Sect IX, QW 182; ASME CODE Sect IX, QW 462)	Metallic materials	A, D
1.13	Drift-expanding test	PP 13 (ČSN EN ISO 8493; ASME CODE Sect II, PART A, SA 370; ASME CODE Sect II, PART A, SA 450; ASME CODE Sect II, PART A, SA 1016)	Metallic materials - tubes	A, D
1.14	Flattening test	PP 14 (ČSN EN ISO 8492; ASME CODE Sect II, PART A, SA 370; ASME CODE Sect II, PART A, SA 450; ASME CODE Sect II, PART A, SA 530; ASME CODE Sect II, PART A SA 1016)	Metallic materials - tubes	A, D
1.15*	Determination of ferrite number using magnetic induction	PP 15 (ČSN EN ISO 8249; ČSN EN ISO 17655; AWS A4. 2M)	Metallic materials	A, D

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
2	Non-destructive tests			
2.1*	Ultrasonic test	PP 16 (ČSN EN 10160; ČSN EN 10228-3; ČSN EN 10228-4; ČSN EN 10306; ČSN EN 10307; ČSN EN 10308; ČSN EN 12680-1; ČSN EN 12680-2; ČSN EN 12680-3; ČSN EN ISO 16809; ČSN EN ISO 16810; ČSN EN ISO 17640; ASME CODE V, Art. 4, 5, 23)	Metallic materials, weld joints, castings, forgings	A, D
2.2*	Radiographic test	PP 17 (ČSN EN ISO 5579; ČSN EN ISO 17636-1; ČSN EN ISO 17636-2; ČSN EN 12681-1; ČSN EN 12681-2; ASME CODE V, Art. 2, 22)	Metallic materials, welded joints, castings	A, D
2.3*	Magnetic particle test	PP 18 (ČSN EN 1369; ČSN EN 10228-1; ČSN EN ISO 9934-1; ČSN EN ISO 9934-2; ČSN EN ISO 9934-3; ČSN EN ISO 10893-5; ČSN EN ISO 17638; ASME CODE V, Art. 7, 25)	Metallic materials, weld joints, castings, forgings	A, D

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
2.4*	Penetrant test	PP 19 (ČSN EN 1371-1; ČSN EN 1371-2; ČSN EN 10228-2; ČSN EN ISO 3452-1; ASME CODE V, Art. 6, 24)	Metallic materials, weld joints, castings, forgings	A, D
2.5*	Visual test	PP 20 (ČSN EN 13018; ČSN EN ISO 17637; ASME CODE V, Art. 9)	Metallic materials, weld joints, forgings	A, D

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 degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

Specification of the scope of accreditation:

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

Explanatory notes:

PP Operating Procedure

HBW Brinell hardness

HRC Rockwell hardness

HV Vickers hardness

ASME Code Standard of the American Society of Mechanical Engineers

ASTM U.S. Technical Standard

AWS American Welding Society

"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."