

**The Appendix is an integral part of  
Certificate of Accreditation No. 30/2023 of 26/01/2023**

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

**DEFEKTA NDT s.r.o.**  
Testing Laboratory for Materials  
Kampelíkova 908, Kukleny, 500 04 Hradec Králové

**Testing laboratory workplace:**

*The laboratory applies a flexible approach to the scope of accreditation permitted as detailed in the Annex.*

*The current list of activities carried out within the flexible scope of accreditation is available at the Laboratory from the Laboratory Manager.*

*The Laboratory provides expert opinions and interprets test results.*

**Tests:**

Ordinal number <sup>1</sup>	Test procedure/method name	Test procedure/method identification <sup>2</sup>	Tested object
1	<b>Destructive tests</b>		
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 E 8; ASTM E 21; 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
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
1.3	Bend test	PP 3 (ČSN EN ISO 7438; ČSN EN ISO 5173; ASTM E 290; 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
1.4	Hardness tests	PP 4 (ČSN EN ISO 6506-1 (HBW 2,5; HBW 10 – for steels only); ASTM E 10; ASME Code Sect. II, Part A, SA 370; ČSN EN ISO 6507-1 (HV 5, HV 10, HV 30); ČSN EN ISO 9015-1;	Metallic materials

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		ASTM E 384; ASTM E 18; ČSN EN ISO 6508-1 (HRC only);	
1.5*	Determination of selected elements <sup>3</sup> in steel 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
1.6	Determination of resistance to intergranular corrosion of stainless steels	PP 6 (ČSN EN ISO 3651-2; ASTM A 262-E)	Metallic materials
1.7	Determination of resistance to intergranular corrosion of stainless steels by measuring mass loss	PP 7 (ASTM A 262-C; ČSN EN ISO 3651-1; ASTM A 262-B)	Metallic materials
1.8	Determination of non-metallic inclusions in steel	PP 8 (ČSN ISO 4967)	Metallic materials
1.9	Micrographic determination of apparent grain size	PP 9 (ČSN EN ISO 643 p. 6.3.1, 6.3.2; ASTM E 112)	Metallic materials
1.10	Metallographic evaluation of wrought metallurgical products	PP 10 (ČSN 42 0469)	Metallic materials
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)	Metallic materials

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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
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
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
1.15*	Determination of ferrite number using magnetic induction	PP 15 (ČSN EN ISO 8249; AWS A4. 2M)	Metallic materials
2	<b>Non-destructive tests</b>		
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
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

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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
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
2.5*	Visual test	PP 20 (ČSN EN 13018; ČSN EN ISO 17637; ASME CODE V, Art. 9)	Metallic materials, weld joints, forgings

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

<sup>3</sup> Fe, S, As, Mo, Nb, Co, Pb, Zr, Al, C, Cr, Cu, Mn, Ni, Ti, V, W, N, B, P, Sn, Sb, Si

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
1.1-1.15, 2.1-2.5

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

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