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. **565/2024**

ŠKODA JS a.s.
with registered office Orlík 266/15, Bolevec, 316 00 Plzeň,
Company Registration No. 25235753

for the Testing Laboratory No. **1411.3**
Material Laboratories

Scope of accreditation:

Testing of mechanical properties and metallographic testing of metallic materials, testing of resistance to intergranular corrosion and non-destructive determination of ferrite phase content 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.: 367/2022 of 14/07/2022, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **25/10/2029**

Prague: 25/10/2024

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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: 565/2024 of 25/10/2024

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

ŠKODA JS a.s.
CAB number 1411.3, Material Laboratories
Orlík 266/15, Bolevec, 316 00 Plzeň

Testing laboratory locations:

1	**Mechanical Testing Laboratory**	Orlík 266/15, Bolevec, 316 00 Plzeň
2	**Metallography**	Orlík 266/15, Bolevec, 316 00 Plzeň

The laboratory applies a flexible approach to the scope of accreditation.
The current list of activities carried out within the flexible scope is available on the laboratory's website https://www.skoda-js.cz/akreditovane-laboratore/ in the form of the „List of activities within the flexible scope of accreditation".
The laboratory provides opinions and interpretations of the test results.

1. **Mechanical Testing Laboratory**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Tensile test	ČSN EN ISO 4136; ČSN EN ISO 5178 ; ČSN EN ISO 5178:2011 ; ČSN EN ISO 6892-1 ; ČSN EN ISO 6892-2 ; ČSN EN ISO 6892-2:2011; ASTM A 370, Sec. 7-14; ASTM E 21; GOST 1497; GOST 6996, chap. 1-4, 8; GOST 9651; GOST 10006; SA-370, edition 2013, Sec. 5-13	Metallic materials	A, D
2	Impact test	ČSN 42 0382; ČSN 42 0383; ČSN 42 0350; ČSN EN ISO 148-1, except KV_8 and KU_8; ČSN EN ISO 9016; GOST 6996, chap. 1-3, 5, 6; GOST 9454	Metallic materials	A, D
3	Bend test	ČSN EN ISO 5173 ; ČSN EN ISO 7438 ; ASTM A 370, Sec. 15; GOST 6996, chap. 1-3, 9; GOST 14019	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]
4	Brinell hardness test	ČSN EN ISO 6506-1; ASTM A370, Sec. 17; GOST 9012	Metallic materials	A, D
5	Vickers hardness test HV5, HV10, HV30	ČSN EN ISO 6507-1; GOST 2999; ČSN EN ISO 9015-1; GOST 6996, chap. 1-3, 7	Metallic materials, weld joints, weld deposites	A, D
6	Rockwell hardness test	ČSN EN ISO 6508-1; ASTM A370, Sec. 18; GOST 9013	Metallic materials	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.

Explanations and abbreviations:

ASTM - American Society for Testing and Materials
GOST - Soviet Union / Russian Federation state standard
KV, KU - absorbed energy
SA - standard according to ASME Boiler and Pressure Vessel Code

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

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2. **Metallography**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Metallographic determination of non-metallic inclusions	ČSN ISO 4967; ASTM E 45; GOST 1778; GOST 1778-70	Metallic materials	A, D
2	Determination of grain size	ČSN EN ISO 643; ASTM E 112; GOST 5639	Metallic materials	A, D
3	Examination of macrostructure	ČSN 42 0467; ASTM E 340; ASTM E 381; GOST 10243	Metallic materials	A, D
4	Examination of macrostructure and microstructure of welds	ČSN EN ISO 17639; ČSN EN ISO 5817; ČSN EN ISO 13919-1; ČSN EN ISO 13919-2; ČSN EN ISO 10042; ČSN EN ISO 6520-1; PN AE G-7-010-89; ČSN EN 1321:1998	Metallic materials	A, D
5	Microscopic measurement of layer thickness	ČSN EN ISO 1463	Metallic materials	A, D
6	Test of resistance to intergranular corrosion	ČSN EN ISO 3651-2; ASTM A 262; ASTM A 763; GOST 6032, except chap. 9; GOST 6032-84, except chap. 6; GOST 6032-89, except chap. 6; GOST 6032-2003, except chap. 7; RCC-M MC 1310	Steel	A, D
7	Determination of delta-ferrite content by ferritometer	IP Ae 1736 F (ČSN EN ISO 8249, chap. 8)	Metallic materials	A, D
8	Micro-hardness test HV0.1, HV0.2, HV1	ČSN EN ISO 6507-1; ČSN EN ISO 9015-2	Metallic materials, weld joints, weld deposites	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)

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

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[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.

Explanations and abbreviations:

ASTM	- American Society for Testing and Materials
GOST	- Soviet Union / Russian Federation state standard
IP Ae	- Internal Procedure (internal test procedure of the Material Laboratory)
PN AE	- Rules and standards for nuclear power engineering – issued by National Commission of Russian Federation for surveillance of safe work in nuclear power - Moscow, Energoatomizdat 1991
RCC-M	French design and construction rules for mechanical components of PWR nuclear islands

"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. "

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