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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. **573/2025**

NOVÁ HUŤ s.r.o.
with registered office Vratimovská 689/117, Kunčice, 719 00 Ostrava
Company Registration No. 23089032

for the Testing Laboratory No. **1178**
Metallurgical and Chemical Laboratories

Scope of accreditation:

Testing and analytical activity carried out on raw materials, semiproducts, finished products and water, including sampling 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.: 196/2025 of 25/04/2025, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **01/06/2026**

Prague: 11/11/2025



Signed in the Czech original:
Jan Velíšek on 11/11/2025

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: 573/2025 of 11/11/2025**

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

NOVÁ HUŤ s.r.o.

CAB number 1178, Metallurgical and Chemical Laboratories
Vratimovská 689/117, Kunčice, 719 00 Ostrava

Testing laboratory locations:

- | | |
|--|-------------------------------------|
| 1. Mechanical Testing Laboratory | Vratimovská 689/117, 719 00 Ostrava |
| 2. Structural Analysis Laboratory | Vratimovská 689/117, 719 00 Ostrava |
| 3. Spectrometric Laboratory | Vratimovská 689/117, 719 00 Ostrava |
| 4. Water Management Laboratory | Vratimovská 689/117, 719 00 Ostrava |

1. **Mechanical Testing Laboratory**

Tests:

Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
1	Tensile test at room temperature	PP-L/Z/1 (ČSN EN ISO 6892-1; ASTM E8/E8M)	Metallurgical product, semiproduct
2	Impact bend test	PP-L/Z/2 (ČSN EN ISO 148-1; ASTM E23)	Metallurgical product, semiproduct
3	Rockwell hardness test	PP-L/Z/3 (ČSN EN ISO 6508-1; ASTM E18)	Metallurgical product, semiproduct
4	Vickers hardness test	PP-L/Z/4 (ČSN EN ISO 6507-1)	Metallurgical product, semiproduct
5	Brinell hardness test	PP-L/Z/5 (ČSN EN ISO 6506-1; ASTM E10)	Metallurgical product, semiproduct
6	Technological tube bend test	PP-L/Z/6 (ČSN EN ISO 8491; ASTM A106/A106M)	Metallurgical product
7	Technological tube widening test	PP-L/Z/6 (ČSN EN ISO 8493)	Metallurgical product
8	Technological tube flattening test	PP-L/Z/6 (ČSN EN ISO 8492)	Metallurgical product
9	Technological tube ring-expanding test	PP-L/Z/6 (ČSN EN ISO 8495)	Metallurgical product
10	Technological tube ring tensile test	PP-L/Z/6 (ČSN EN ISO 8496)	Metallurgical product
11	Bend test	PP-L/Z/11 (ČSN EN ISO 7438; ČSN EN ISO 5173)	Metallurgical product

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
12	Fatigue test of metals at rotation	PP-L/Z/12 (ČSN 42 0363)	Metallurgical product, semiproduct
13	Measurement of the geometry of ribs and match plane by optical method	PP-L/Z/17 (ČSN EN ISO 15630-1; ČSN EN ISO 15630-3)	Metallurgical product, concrete reinforcing steel, thread bars

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)

2. Structural Analysis Laboratory

Tests:

Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
1	Macroscopic tests	PP-L/M/10 (ČSN 42 0467; ISO 4969; ČSN EN ISO 17 639)	Metallurgical product, semiproduct
2	Metallographic determination of non-metallic inclusions in steel	PP-L/M/12 (ČSN ISO 4967; ASTM E45; DIN 50 602:1985)	Metallurgical product, semiproduct
3	Micrographic determination of grain size of steels and non-ferrous metals	PP-L/M/13 (ČSN 42 0462; ČSN EN ISO 643; ASTM E112)	Metallurgical product, semiproduct
4	Metallographic evaluation of wrought metallurgical products	PP-L/M/14 (ČSN 42 0469)	Metallurgical product
5	Determination of depth of decarburization by metallographic method	PP-L/M/15 (ČSN EN ISO 3887)	Metallurgical product, semiproduct
6	Quantitative metallographic tests using image analysis	PP-L/M/16 (ASTM E45; DIN 50602:1985; ČSN ISO 4967)	Metallurgical product, semiproduct

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
7	Metallographic evaluation of cast iron structure	PP-L/M/17 (ČSN EN ISO 945-1; ČSN 42 0461:1975)	Metallurgical product, semiproduct
8	Determination of resistance of steels for pressure vessels and tubes to hydrogen-induced cracking (HIC) and their metallographic assessment	PP-L/M/18 (ANSI/NACE Standard TM0284; ČSN EN 10229)	Metallurgical product
9	Testing of resistance of metals to sulfide stress cracking (SSC)	PP-L/M/19 (ANSI/NACE Standard TM0177)	Metallurgical product

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3. Spectrometric Laboratory

Tests:

Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
1-5	Reserved		
6	Determination of Fe, Zn, Mn, Cu, Cr, Ni, Cd, Pb by ICP-OES method	SOP-L/AS/1-4-1 (ČSN EN ISO 11885)	Waste water, drinking and service water, surface water, service make-up water, ground water
7	Determination of Hg by AMA-254 analyzer	SOP-L/AS/2-1-1 (ČSN 75 7440)	Waste water, drinking and service water, surface water, service make-up water, ground water
8-18	Reserved		
19	Determination of B,C, Al _{soluble} , Al _{total} , Si, P, S, Ca,Ti, V, Cr, Mn, Co, Ni, Cu, As, Mo, Sn, Nb, N by OES method	SOP-L/S/4 (ASTM E415-17)	Steel
20-22	Reserved		

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
23	Determination of C, S, O, N by an analyzer with IR detection (C,S,O) and thermal conductivity detection (N)	SOP-L/S/4-4 (ČSN ISO 4935; ČSN ISO 9556; ČSN EN ISO 15349-2; ČSN EN 10276-2; ČSN EN ISO 10720)	Technical iron, iron ore materials, agglomerates
24	Reserved		

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4. Water Management Laboratory

Tests:

Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
1	Determination of hydrocarbons C10 – C40 in water by GC-FID method after extraction with a solvent	SOP-L/AM/9 (ČSN EN ISO 9377-2)	Waste water, drinking and service water, surface water, service make-up water
2*	Determination of temperature	SOP-L/AV1 (ČSN 75 7342)	Waste water, drinking and service water, surface water, service make-up water, hot water made from drinking water, hot water made from service water
3	Determination of pH	SOP-L/AV2 (ČSN ISO 10523)	Waste water, drinking and service water, surface water, service make-up water, hot water made from drinking water, hot water made from service water
4	Determination of conductivity	SOP-L/AV3 (ČSN EN 27888)	Waste water, drinking and service water, surface water, service make-up water,

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
5	Determination of colour by spectrophotometry	SOP-L/AV4 (KN 75 7364)	Drinking and service water, surface water, service make-up water, hot water made from drinking water, hot water made from service water
6	Determination of turbidity by nephelometry	SOP-L/AV5 (ČSN EN ISO 7027)	Drinking and service water, surface water, service make-up water, hot water made from drinking water, hot water made from service water
7	Determination of free and total chlorine by spectrophotometry	SOP-L/AV6 (ČSN ISO 7393-2)	Drinking and service water, hot water made from drinking water, hot water made from service water
8	Determination of dissolved solids and DIS by gravimetry	SOP-L/AV7 (ČSN 75 7346; ČSN 75 7347)	Waste water, drinking and service water, surface water, service make-up water
9	Determination of suspended solids by gravimetry	SOP-L/AV8 (ČSN EN 872)	Waste water, drinking and service water, surface water, service make-up water
10	Determination of chemical oxygen demand with permanganate (COD _{Mn}) by titration	SOP-L/AV9 (ČSN EN ISO 8467)	Waste water, drinking and service water, surface water, service make-up water, hot water made from drinking water, hot water made from service water
11	Determination of chemical oxygen demand with dichromate (COD _{Cr}) by titration	SOP-L/AV10 (ČSN ISO 6060)	Waste water, drinking and service water, surface water, make-up water
12	Determination of biochemical oxygen demand (BOD ₅) by titration	SOP-L/AV11 (ČSN EN 1899-1)	Waste water, drinking and service water, surface water, service make-up water
13	Determination of chlorides by titration	SOP-L/AV12 (KN 75 7503)	Waste water, drinking and service water, surface water, service make-up water
14	Determination of sulphate by titration	SOP-L/AV13 (ČSN 75 7477)	Waste water, drinking and service water, surface water, service make-up water

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
15	Determination of nitrite by spectrophotometry and nitrite nitrogen by calculation from measured values	SOP-L/AV14 (ČSN EN 26777)	Waste water, drinking and service water, surface water, service make-up water
16	Determination of nitrate by spectrophotometry, nitrate and inorganic nitrogen by calculation from measured values	SOP-L/AV15 (ČSN ISO 7890-3)	Waste water, drinking and service water, surface water, service make-up water
17	Determination of total phosphorus by spectrophotometry	SOP-L/AV16 (ČSN EN ISO 6878)	Waste water, drinking and service water, surface water, service make-up water
18	Determination of total cyanide by spectrophotometry	SOP-L/AV17 (ČSN 75 7415)	Waste water, service make-up water
19	Determination of ammonium by titration and ammonia nitrogen by calculation from measured values	SOP-L/AV18 (ČSN ISO 5664)	Waste water, drinking and service water, surface water, service make-up water
20	Determination of univalent phenols by spectrophotometry	SOP-L/AV19 (ČSN ISO 6439)	Waste water, drinking and service water, surface water, service make-up water
21	Determination of ammonium by spectrophotometry and ammonia nitrogen by calculation from measured values	SOP-L/AV20 (ČSN ISO 7150-1)	Waste water, drinking and service water, surface water, service make-up water
22	Determination of adsorbable organically bound halogens (AOX) by coulometry	SOP-L/AV21 (ČSN EN ISO 9562)	Waste water, service make-up water, surface water
23	Determination of total Fe by photometry	SOP-L/AV23 (ČSN ISO 6332)	Waste water, drinking and service water, surface water, service make-up water
24	Determination of acid neutralizing capacity (ANC) by titration	SOP-L/AV24 (ČSN EN ISO 9963-1)	Waste water, drinking and service water, surface water, service make-up water
25	Determination of base neutralizing capacity (BNC) by titration	SOP-L/AV25 (ČSN 75 7372)	Waste water, drinking and service water, surface water, service make-up water

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
26	Determination of BNC _{8,3} , ANC _{4,5} , ANC _{8,3} and calculation of carbon dioxide forms	SOP-L/AV26 (ČSN 75 7373)	Waste water, drinking and service water, surface water, service make-up water
27	Determination of Ca by titration	SOP-L/AV27 (ČSN ISO 6058)	Waste water, drinking and service water, surface water, service make-up water
28	Determination of hardness: (sum of Ca and Mg) by titration	SOP-L/AV28 (ČSN ISO 6059)	Waste water, drinking and service water, surface water, service make-up water

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Sampled object
1	Drinking, service and hot water, manual sampling	SOP-L/AV36 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN ISO 5667-14)	Drinking water, hot water made of drinking water, service water, hot water made of service water
2	Sampling of waste water, by an automatic sampler	SOP-L/AV37 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN ISO 5667- 14)	Waste water
3	Sampling of surface water, manual sampling	SOP-L/AV38 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN ISO 5667-6; ČSN ISO 5667- 14)	Surface water, service make-up water

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Abbreviations and explanations:

ICP OES – Inductively Coupled Plasma Atomic Emission Spectrometry

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IR	– Infrared Spectrometry
OES	– Optical Emission Spectrometry
GC-FID	– Gas Chromatography with Flame Ionization Detector
ANSI/NACE	– American National Standards Institute / National Association of Corrosion Engineers
ASTM	– American Society for Testing and Materials
DIN	– Deutsche Industrie-Norm
RAS	– Dissolved Inorganic Salts

"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."