

**CERTIFICATE
OF ACCREDITATION**

No. S-023

dated 22.11.2024

The Slovak National Accreditation Service issues a Certificate of Accreditation to an accredited body pursuant to Section 26 par.6 of Act No. 53/2023 Coll. on Accreditation of Conformity Assessment Bodies (hereinafter referred to as the "Accreditation Act").

Welding Research Institute

Račianska 1523/71, 831 02 Bratislava – mestská časť Nové Mesto
ID Number: 36 065 722

Organizational unit performing the activity of the Accredited Body:

Department of materials, laboratories

Workplace of the Accredited Body:

Račianska 1523/71, 831 02 Bratislava – mestská časť Nové Mesto

Identification number of the Accredited Body: 003/S-023

Area of accreditation: Testing laboratory

The testing laboratory demonstrated its competence to perform the accredited activity fulfilling the accreditation requirements of **ISO/IEC 17025: 2017** when performing chemical analyzes of iron, steels, cast irons and their products, metallographic evaluation of iron, non-ferrous metals, their alloys and welded joints, coatings and ceramics, testing of metallic materials, mechanical testing of metallic and non-metallic materials, plastics and testing of pressure vessels, non-destructive testing of metallic and non-metallic materials, welded and soldered joints, metallurgical semi-finished products and products within the scope of accreditation stated in the Annex of this Certificate of Accreditation. The Annex shall form an integral part of the Certificate of Accreditation.

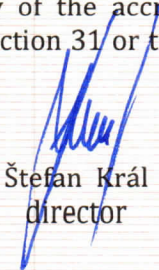
Number and date of issue of the accreditation decision: No. 003/11574/2024/1 dated 21.10.2024

Validity of the accreditation decision:

The accreditation decision No. 003/11574/2024/1 dated 21.10.2024 is valid from 22.11.2024 to 28.09.2026.

The validity of this Accreditation Certificate expires upon the expiry of the accreditation decision, the decision on withdrawal of the accreditation pursuant to Section 31 or the expiry of the accreditation pursuant to Section 32 of the Accreditation Act.




Štefan Král
director

Scope of Accreditation

Accredited body: Welding Research Institute
Račianska 1523/71, 831 02 Bratislava – mestská časť Nové Mesto

Organizational unit performing the activity of the accredited body:
Department of materials, laboratories

Place of performance of the accredited body:
Račianska 1523/71, 831 02 Bratislava – mestská časť Nové Mesto

Identification number of the accredited body: 003/S-023

Laboratory with fixed scope

Item	Object		Established method		Other specifications (modification/validation, opinions/interpretations, workplace, etc.)
	Subject / Matrix / Environment	Property/ Parameter / Pointer / Analyte	Principle / Type	Label	
B1-4	Iron, steel, cast iron and their products	C	Infrared absorption after combustion in an induction furnace	STN 420542 STN EN ISO 9556 (PI09-LAB-2016)	
		S		STN EN 24935 (PI09-LAB-2016)	
B1-6.1	Iron, non-ferrous metals, their alloys and welded joints, coatings and ceramics	Macrostructure	Metallographic analysis of the material (Qualitative exam)	STN 420467 STN EN ISO 17639 STN EN ISO 6520 -1,2 STN EN ISO 5817	
B1-6.2		Microstructure		STN 420469 STN 038137 STN EN ISO 17639 STN EN ISO 945-1	
B1-6.3		Grain Size		STN EN ISO 643 ASTM E112 STN EN ISO 2624	
B1-6.4		Length, depth of decarburization, coating thickness, defect size		Metallographic measurement	
B1-7	Iron, non-ferrous metals, their alloys and welded joints, coatings	Vickers hardness HV	Hardness measurement	STN EN ISO 6507-1 STN EN ISO 9015 -1,2 STN EN ISO 14271 STN EN ISO 4516	
B2-1	Iron, non-ferrous metals, their alloys and welded joints, plastics	Mechanical characteristics Re; R _m A; Z	Tensile test at higher and lower temperatures	STN EN ISO 6892-1 STN EN ISO 6892-2 STN EN ISO 17660-1 STN EN ISO 4136 STN EN ISO 5178	
	Tensile test of welded joint in the transverse direction				
	Tensile test of steel reinforcement				
	Weld tensile test. metal, melting ZS in the longitudinal direction				



Annex to the Certificate of Accreditation No. S-023 dated 22.11.2024.

The Annex is an integral part of the
Certificate of Accreditation

Item	Object		Established method		Other specifications (modification/validation, opinions/interpretations, workplace, etc.)
	Subject / Matrix / Environment	Property/ Parameter / Pointer / Analyte	Principle / Type	Label	
B2-2	Iron, non-ferrous metals, their alloys and welded joints	Deformation ability	Bend test (Qualitative exam)	STN EN ISO 7438 STN EN ISO 5173	
B2-3		Energy consumed KU; KV	Impact test Impact test at reduced and elevated temperatures	STN EN ISO 148-1 STN EN ISO 9016	
B2-4	Pressure vessels and pipes	Limiting pressure capacity	Testing the pressure vessels at static and repeated load at ambient temperature (Qualitative exam)	MS01-LAB-2016 (STN EN 13445-5)	
B2-5	Iron, non-ferrous metals, their alloys and welded joints	Hardness according to Rockwell HRC	Hardness measurement	STN EN ISO 6508-1	
B3-1	Metallic and non- metallic materials, metallurgical and foundry semi- finished products and products, welded and soldered joints with a thickness of 0.5 to 100 mm	Quality, defects, inhomogeneities	Radiography testing RT (Qualitative exam)	EN ISO 5579	
B3-2	Metallic and non- metallic materials, metallurgical and foundry semi- finished products and products, welded and soldered joints	Quality, defects, inhomogeneities, material thickness	Ultrasound testing UT (Qualitative test, except material thickness measurement)	EN ISO 16810 EN ISO 16809	The tests are carried out in the laboratory
B3-3	Ferromagnetic materials, metallurgical, foundry semi- finished products and products, welding joints	Quality, defects, inhomogeneities	Magnetic particle testing MT (Qualitative exam)	EN ISO 9934-1	Tests are carried out in the laboratory and at client's site
B3-4	Metallic and non- metallic materials, metallurgical and foundry semi- finished products and products, welded and soldered joints		Penetrant testing PT (Qualitative exam)	EN ISO 3452-1	Tests are carried out in the laboratory and at client's site
B3-5	Metallic and non- metallic materials, metallurgical and foundry semi- finished products and products, welded and soldered joints		Visual examination VT (Qualitative exam)	EN 13018	Tests are carried out in the laboratory and at client's site

record number: 11574/323204

Slovenská národná akreditačná služba, Karloveská 63, P.O.BOX 74, 840 00 Bratislava

