Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER

State Secretariat for Economic Affairs SECO
Swiss Accreditation Service SAS

STS Directory

Accreditation number: STS 0026

International standard:	ISO/IEC 17025:2017
Swiss standard:	SN EN ISO/IEC 17025:2018

Steeltec AG
Testing laboratory
Emmenweidstrasse 90
6020 Emmenbrücke

Head:	Stephan Stücklin
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Initial accreditation:	19.07.1993
Current accreditation:	19.07.2023 – 18.07.2028
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 16.12.2024

Testing laboratory for mechanical, metallographic and spectrometric tests on metals

Group of products or materials, field of activity	Principle of measurement [2] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Mechanical testing		
Metals	Tensile test up to 1600 kN	Tensile test on unworked and machined samples, DIN EN ISO 6892-1, method B
	Hardness test	Brinell SN EN ISO 6506-1
		Vickers SN EN ISO 6507-1
		Rockwell C SN EN ISO 6508-1
	Impact test 450 J	Charpy pendulum impact test, Room temperature and 0° to -101 °C, DIN EN ISO 148-1
Steel	Hardenability test	End quench test, DIN EN ISO 642

1) Scope of accreditation type A (fix)
2) Scope of accreditation type B (flexible)
3) Scope of accreditation type C (flexible)

Definition of flexibilty see SAS Document 741

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Group of products or materials, field of activity	Principle of measurement [2] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Metallography		
Metals	Qualitative microstructural characterization	Metallographic micrographs, picture scales and formats, DIN 50600
	Vickers hardness test (HV0.1 - HV1.0)	Steel - Determination and verification of the depth of carburized and hardened cases, SN EN ISO 2639
Steel	Optical determination of grain size	Steels - Micrographic determination of the apparent grain size, SN EN ISO 643
		Standard Test Methods for Determining Average Grain Size, ASTM E112
	Quantitative microscopic examination of non-metallic inclusions	Microscopic examination of special steels using standard diagrams to assess the content of non-metallic inclusions, DIN 50602, abrogated norm
		Standard test methods for determining the inclusion content of steel, ASTM E45
	Quantitative microscopic examination of microstructures	Manual point counting method for statistically estimating the volume fraction of a constituent with a point grid, ISO 9042
Ferrous products	Determination of decarburization	Steels - Determination of depth of decarburization, SN EN ISO 3887
Metallic and oxide coatings	Measurement of coating thickness	Measurement of coating thickness, Microscopical method, DIN EN ISO 1463

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Group of products or materials, field of activity	Principle of measurement [2] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Spectrometry		
Steel analysis	Complete spectrometric analysis of steel	Standard Test Method for Optical Emission Vacuum Spectrometric Analysis of Carbon and Low-Alloy Steel, ASTM E415
		Sampling and preparation of samples for the determination of chemical composition, SN EN ISO 14284
	Determination of C and S by infrared absorption method	Steel and iron - Determination of total carbon and sulfur content - Infrared absorption method after combustion in an induction furnace (routine method), ISO 15350, procedure A
	Determination of N by infrared absorption method	Steel and iron – Determination of nitrogen content – Measurement of thermal conductivity after melting in a stream of inert gas (routine method), ISO 15351
	Determination of O by infrared absorption method	Chemical analysis of ferrous metals – Determination of oxygen content in steel and iron, EN 10276 (part 1 and part 2)
Concrete structures and concrete components	Test methods – Tensile test (steel for the reinforcement and prestressing of concrete) - Part 1: Reinforcing bars, wire rod and wire	SN EN ISO 15630-1 resp. SIA 162.021

In case of contradictions in the language versions of the directories, the German version shall apply.

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2) Scope of accreditation type B (flexible)
3) Scope of accreditation type C (flexible)

Definition of flexibilty see SAS Document 741