



STS Directory

Accreditation number: STS 0026

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

Steeltec AG
Testing laboratory
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Initial accreditation: 19.07.1993
Current accreditation: 19.07.2018 to 18.07.2023
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 01.06.2021

Testing laboratory for mechanical, metallographical and spectrometrical 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, Roomtemperature 0° to -101 °C, DIN EN ISO 148-1
Steel	Hardenability test	End quench test, DIN EN ISO 642



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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 Iron and steel - Determination of the conventional depth of hardening after surface heating, DIN EN 10328 Determination of the effective depth of hardening after nitriding, DIN 50190-3
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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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
Steel analysis	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
	Determination of N and O by infrared absorption method	Modified method, derived from standard ISO 15350

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

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