



STS Directory

Accreditation number: STS 0023

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

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	Initial accreditation:	24.06.1993
	Current accreditation:	17.07.2017 to 16.07.2022
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)	

Scope of accreditation as of 30.09.2020

Testing laboratory for chemical, physical and mechanical tests of metallic material, environmental samples and elements in organic materials and salts.

Group of products or materials, field of activity	Principle of measurement ^{2) & 3)} (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Metallic materials in form of bars, casting samples, semi-finished products, finished products, powders and chips for wet chemical analysis	Mechanical preparation (such as cutting, milling, etc.)	In-house test methods
	Arc optical emission spectroscopy for major and minor elements	In-house test methods
	Mechanical disintegration (such as milling, drilling, etc.) Chemical dissolving	In-house test methods (GDMB method according to Handbook "Analyse der Metalle", issued 1993)



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Group of products or materials, field of activity	Principle of measurement ²⁾ & ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
<p>Elements in organic materials in salts and solutions</p> <p>Environmental samples Aqueous samples: - Purified water - Groundwater - Waste water - Leachate</p> <p>Solid environmental samples: - Ab-/Adsorption material, filter - Culture samples: Herbal material</p>	<p>Wet chemical analysis for main and trace components, content of oxides, filler content and filler material, primarily by means of the following instruments:</p> <p>F-AAS, ICP-OES, ICP-MS</p> <p>Photometry</p>	<p>In-house test methods</p> <p>GDMB method according to the manual "Analysis of Metals", 1993 edition</p>
	<p>ICP-OES ³⁾, ICP-MS ³⁾</p>	<p>In-house test methods</p>
	<p>Titration ³⁾</p>	<p>In-house test methods</p>
	<p>Sample preparation procedures for the analysis of components in solution and undissolved components</p>	<p>German standard methods (DEV) for water analysis</p>
	<p>Pretreatment (drying, breaking, milling, mixing, chemical dissolution, elution or extraction)</p> <p>Chemical analysis of relevant environmental parameters such as cations and anions:</p>	<p>In-house test methods (Instructions for sampling and analysis of harmful substances in soil, BAFU)</p>
	<p>F-AAS ³⁾</p>	<p>In-house test methods</p>
	<p>ICP-OES ³⁾, ICP-MS ³⁾</p>	<p>DEV E22, DEV E29, In-house test methods</p>
	<p>Cold vapor-AAS for Hg ³⁾</p>	<p>EN 1483 In-house test methods</p>
	<p>pH-meter ³⁾</p>	<p>DEV C5 In-house test methods</p>
	<p>Electrical conductivity ³⁾</p> <p>Titration ³⁾ (neutralisation-, precipitation- and redox titration): - Acid and base - Halogenides - Carbonates</p>	<p>DEV C8</p> <p>DEV D8 DEV D1-2 In-house test methods</p>



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Metallic materials	Photometry ³⁾	DEV-procedures Commercial procedure (cuvette tests)
	Gravimetry ³⁾	DEV-procedure In-house test methods
	Mechanical properties: ²⁾ Brinell and Vickers hardness testing	EN ISO 6506-1, ASTM E10, EN ISO 6507-1
	Static tensile test ²⁾	EN ISO 6892-1, EN ISO 6892-2, ASTM 370, ASTM E8/E8M
	Fatigue testing ²⁾	ASTM E466, ISO 1099
	Metallographic investigations: ²⁾ cross section preparation and grain size determination	ASTM E3, ASTM E112
Packagings	Seal strength ²⁾	ASTM F88

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

Abbreviation	Signification
ASTM	American Society for Testing and Materials
BAFU	Bundesamt für Umwelt = Swiss Federal Office for the Environment (FOEN)
DEV	Deutsche Einheits-Verfahren (German standard methods)
DIN	Deutsche Industrie-Norm (German Industrial Standard(s))
F-AAS	Flame atomic absorption spectroscopy
GDMB	Gemeinschaft Deutscher Metallhütten- und Bergleute (Society for Mining, Metal-lurgy, Resource and Environmental Technology)
ICP	Inductively coupled plasma
ICP-MS	ICP-Mass Spectrometer
ICP-OES	ICP-Optical Emission Spectrometer
ISO	International Organization for Standardization

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