



STS Directory

Accreditation number: **STS 0641**

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

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Initial accreditation: 09.06.2017
Current accreditation: 09.06.2017 to 08.06.2022
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as 14.07.2021

Testing laboratory for sampling and analyses of air and building materials, soil, waste, analysis of asbestos and other respirable fibres as well as testing ambient air conditions

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)
ASBESTOS in building materials, technical products	Building surveys, sampling and analysis of building materials and technical products ^{*)}	AM 07-7 In house methods based on VDI 3866 page1, EKAS/FCOS 6503
	Optical methods ^{*)} Polarisation microscopy	AM 07-5 In house methods based on EPA 600/R-93/116
	Electron-optical methods Scanning electron microscopy (SEM - EDX)	AM 07-7 In house methods based on VDI 3866 page 5



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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)
ASBESTOS in air and ambient air	Sampling and analysis of respirable fibres and particles	AM 07-3 In house methods based on VDI-3492, EKAS/FCOS 6503, ISO 14966, BGI 505-46
	Electron-optical methods Scanning electron microscopy (SEM - EDX)	AM 07-3 In house methods based on VDI 3492, ISO 14966, BGI 505-46
INORGANIC FIBRES in building materials, technical products	Building surveys, sampling and analysis of building materials and technical products	AM 07-3 In house methods based on VDI 3866 page 1, EKAS/FCOS 6503
	Electron-optical methods Scanning electron microscopy (SEM - EDX)	AM 07-3 In house methods based on VDI 3492, BGI 505-46
in air and ambient air	Sampling and analysis of respirable fibres and particles	AM 07-3 In house methods based on VDI-3492, ISO 14966, BGI 505-46
	Electron-optical methods Scanning electron microscopy (SEM - EDX)	AM 07-3 In house methods based on VDI 3492, BGI 505-46
SOLIDS / TECHNICAL PRODUCTS	Sampling of mold spores on surfaces and in solids (analysis in an external laboratory)	In house procedure AM 10-8

1) Scope of accreditation type A (fix)

2) Scope of accreditation type B (flexible)

3) Scope of accreditation type C (flexible)

Definition of flexibility 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)
SOLIDS / TECHNICAL PRODUCTS	<p>Qualitative und semi-quantitative elemental analysis / spectroscopy</p> <p>Scanning electron microscopy (SEM - EDX)</p> <ul style="list-style-type: none"> - Surface characterization - Length and size measurement - Determination of particle size and shape <p>Quantitative gravimetric analysis</p> <p>Dry matter TS105 (gravimetric)</p>	<p>AM 07-7 In house methods based on DIN ISO 22309, VDI 3866 page 5</p> <p>AM 07-8 In house methods based on FOEN guideline UV-1715-D DIN EN 15935 SN EN 15169</p>
HEAVY METALS in building materials, excavated materials, soils	<p>Sampling, sample preparation and analyses ^{*)}</p> <p>Spectroscopic methods ^{*)}</p> <p>X-ray fluorescence spectroscopy (XRF)</p> <p>Mercury by atom fluorescence spectroscopy (AFS)</p>	<p>AM 07-2 In house methods based on EPA 6200, DIN 51418-2</p> <p>AM 07-4 In house methods based on EPA 7473</p>
AMBIENT AIR CONDITIONS in air and ambient air	<p>Sampling and analysing ambient air volumes / indoor air quality ^{*)}</p> <p>Sampling of mold spores for characterization purposes and the determination of the concentration in air by an external laboratory</p>	<p>In house procedure AM 10-8</p>



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<p>AMBIENT AIR CONDITIONS in air and ambient air</p> <p>Respirable & inhalable dust</p> <p>Gaseous components on work places, in air and ambient air</p>	<p>Physical methods ^{*)}</p> <ul style="list-style-type: none"> - temperature - humidity - air pressure <p>Dust sampling for respirable & inhalable dust on work places, in air and ambient air</p> <p>Particulate Matter Aerosols Metals</p> <p>Dust sampling for inhalable dust</p> <p>Diesel exhaust</p> <p>Sampling and measurement of CO₂</p> <p>Dust sampling for inhalable dust</p> <p>Dust and gases, containing PAH and PCB</p> <p>Sampling by adsorbent tube</p> <p>Solvents VOC Formaldehyde Phenols Naphtalene Fire odorous substances Tricyclic PAH Carbon acids</p>	<p>AM 07-3 In house methods based on VDI 3492</p> <p>AW 10-11 In house method based on EN 481, BGI 3005, 3010, 3020, 3040 und 0412/1</p> <p>AW 10-11 In house method based on EN 481, BGI 3005, 3010, 3020, 3040 und 0412/1</p> <p>AW 6-16 In house method based on list of Swiss occupational exposure limits</p> <p>AW 10-11 In house method based on EN 481, DIN EN ISO 12884, DIN EN ISO 16000-12, -13</p> <p>AW 10-7 In house method based on VDI 2100:2, VDI 3862:3</p>



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Radon in ambient air	<p>Sampling</p> <p>Passive sampling by radon dosimeter</p> <p>Active sampling by radon measurement devices</p>	AW 10-12 In house method based on Guidelines given by the FOPH, RPO, StMmV

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

*) These methods are executed in the mobile laboratory

Abbreviation	Signification
BGI	Berufsgenossenschaftliche Informationen
BfS	Bundesamt für Strahlenschutz der Bundesrepublik Deutschland
DIN	Deutsches Institut für Normung
EKAS	Eidgenössische Koordinationskommission für Arbeitssicherheit
EPA	Environmental Protection Agency (USA)
FCOS	Federal coordination commission for occupational safety
FOEN	Federal Office for the Environment
FOPH	Federal Office of Public Health
ISO	International Organization for Standardization
PAH	Polycyclic aromatic hydrocarbons
PCB	Polychlorinated biphenyls
RPO	Radiological Protection Ordinance 814.501
SEM - EDX	Scanning electron microscopy with energy-dispersive X-ray spectroscopy
StMmV	Verordnung des EJPD über Messmittel für ionisierende Strahlung 941.210.5
VDI	Verein Deutscher Ingenieure
VOC	Volatile organic compounds
XRF	X-ray fluorescence spectroscopy

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