STS Directory

Accreditation number: STS 0052

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

Swiss Safety Center AG
Materials Technology
Richtistrasse 15
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Internet: http://www.safetycenter.ch
Initial accreditation: 21.02.1994
Current accreditation: 04.08.2024 to 03.08.2029
Scope of accreditation see: www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 04.08.2024

Testing laboratory for tanks, pressure equipment and packaging for the transport of dangerous goods, and for safety inspections of plant components and technical systems, testing of welding and brazing procedures as well as for destructive and non-destructive material and component testing

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)
Testing of transportable pressure equipment used for the transport of dangerous goods including:		Safety engineering testing laboratory Peter Germann Tel: +41 44 877 62 05 peter.germann@safetycenter.ch All applicable standards according to:
Pressure receptacles	Type tests as the basis for approval	ADR
Pressure barrels	Bursting tests	RID
Pressurized gas packs	Load cycle tests	GGUV / TPED(2010/35/EU)

1) Scope of accreditation type A (fix)
2) Scope of accreditation type B (flexible)
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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)
Receptacles	Drop tests	IAEO recommendations
	Hardness tests	
	Fire behaviour tests	IMDG Code
	Shot tests	IATA-DGR
	Climate tests	ICAO-TI
	Long-term trials	UN Manual of Tests and Criteria
Tests on dangerous goods containment systems (all types of materials) for dangerous goods including:	Type tests as a basis for approval	Safety engineering testing laboratory Manager: Wolfgang Helbling Tel: +41 1 877 61 93 wolfgang.helbling@safetycenter.ch
		All the standards referenced in these codes of practice:
IBC	Drop test	ADR
Jerricans	Leakproofness test	RID
Drums	Hydr. Internal pressure test	GGUV / RL-GGUV
Boxes	Stacking test	UN Manual of Tests and Criteria
Bags	Puncture test	IAEO recommendations
Combination packagings	Lifting test	IMDG Code
Light gauge metal packagings	Climate test	IATA-DGR
Large packaging	Conditioning	ICAO-TI
Systems for testing of pressure vessels used for the transport of dangerous goods:		Modern non-destructive material testing (NDT) Carlo Romito Tel: +41 44 877 62 64 carlo.romito@safetycenter.ch
Ultrasonic testing systems	Automated ultrasonic testing (Autosonic™)	Applicable standards according to ADR/RID:
		ISO 18119
		EN ISO 9809
		EN ISO 7866
		EU-directives:
		2006/42/EU (annex II, section A)
		2014/30/EU
		2014/35/EU

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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)
Safety checks / tests on pressurized and mechanical objects of all types including:		Safety engineering testing laboratory Peter Germann Tel: +41 44 877 62 05 peter.germann@safetycenter.ch Test procedures according to national and international standard and SVTI Code. 2014/68/EU
Valves	Bursting tests	
Pipes/hoses	Leakage test	
Drinks containers	Internal pressure test	
Household/garden appliances	Load cycle test	
Autoclaves		
Heat exchangers		
Pressure equipment		
Pressure vessel		
Testing laboratory for destructive and non-destructive material and component testing		Manager: Daniel Galsterer Tel: +41 44 877 63 21 daniel.galsterer@safetycenter.ch
	Non-destructive testing (NDT)	
Metals	Radiographic testing - Various X-ray systems (stationary and mobile) - Isotopes (Ir 192) (stationary and mobile)	EN ISO 5579 EN ISO 17636-1 EN 10675-1 EN 10675-2 EN 12681-1 EN 10893-6 SVTI 507 ASME Section V/VIII/IX EN 17636-2 EN 12681-2 EN ISO 10893-7

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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)
	Ultrasonic testing - Various ultrasonic measuring instrument - Various wall thickness measuring instruments	EN ISO 16810 EN ISO 16811 EN ISO 16823 EN 4050 -1 bis -4 ASTM B594, B548 EN 10160 EN 10307 EN 11666 EN ISO 23279 EN ISO 17640 SVTI 508 EN 10228-3, 10228-4 EN ISO 10893-8EN ISO 10893-10 EN 12680 -1 + -2 EN ISO 16809 SEP 1920 ASME Section V/VIII/IX
	Phased Array Ultrasonic Testing (PAUT) and Automated Phased Array Ultrasonic Testing (AUT)	EN ISO 13588 EN ISO 19285 ISO 19675 ISO 18563-3 EN ISO 20601
	Time-of-flight diffraction technique (TOFD) as a method for detection and sizing of discontinuities	ISO 16828 EN ISO 15626 EN ISO10863
	Penetrant testing - Aerosols, canisters (red-white test and fluorescent)	EN 3452-1 SVTI 510 EN 10228-2 EN 1371-1 + -2 EN 23277 ASME Section V/VIII/IX
	Visual testing - direct - indirect	EN 13018 EN 17637 ASME Section V/VIII/IX
Ferromagnetic materials	Magnetic particle testing - Stationary units - Mobile units - Yoke magnet	EN ISO 9934-1 EN 17638 SVTI 509 EN 10228-1 EN 1369 EN ISO 23278 ASME Section V/VIII/IX

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Metals and synthetic materials	Acoustic emission testing - Mobile units	EN 13554 EN 14584 EN 15495 EN 15856 EN 15857 EN 16148 EN ISO 18081 ISO 18249 ISO 19835 ASME Section V/VIII/IX
Measurement of coating thickness	- Non-magnetic coatings on magnetic metals - Non-magnetic or insulating coatings on non-magnetic metals	EN ISO 2178 EN ISO 2360 EN ISO 2361 ASTM D 7091
	Destructive testing on materials (DT)	
Materials and components	Tensile testing	EN ISO 6892-1 + -2, EN 10002* EN 10164 EN ISO 5178 EN ISO 4136 ASTM A370 ASTM E8
	Bend test	EN ISO 7438 EN ISO 5173
	Fracture test on welds	EN ISO 9017
	Vickers hardness test	EN ISO 6507-1 EN ISO 9015-1
	Brinell hardness test	EN ISO 6506-1 ASTM E10
	Rockwell hardness test	EN ISO 6508-1 ASTM E18
	Pendulum impact tests	EN ISO 148-1, EN 10045* EN ISO 9016 ASTM A370 ASTM E23
	Metallographic tests	EN ISO 17639 ASTM E562
	Corrosion tests	EN ISO 3651-2 ASTM G28 ASTM G5 ASTM F2129

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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)
Welded and brazed assemblies	NDT and DT for procedure tests	EN ISO 15614-1,-2,-4,-5,-6,-7,-8 EN ISO 15614-11,-12 EN ISO 15613 EN ISO 14555 SVTI 505 AD 2000-Merkblatt HP2/1 EN 13134
	NDT and DT for production control tests	EN ISO 17637 SVTI 506 AD 2000-Merkblatt HP5/2
Chemical analysis of materials	Spark emission spectrometry (S-OES)	EN 14726 EN 15079 ASTM E 415 ASTM E 1999 ASTM E 1086
	X-ray fluorescence spectroscopy (XRF)	DIN 51418-1, -2 ASTM E 1621

Note: * Withdrawn test standards; however, test orders continue to be carried out.

The testing laboratory maintains a list with detailed information on the activities within the scope of accreditation. It is available upon request at the laboratory.

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

Abbreviation	Meaning
AD	Regelwerk Arbeitsgemeinschaft Druckbehälter
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
FOT	Federal Office of Transport
RTPO	Recognised third-party organisation
SEP	Stahl-Eisen-Prüfblatt
SVTI	Guidelines Swiss Association for Technical Inspections
XRF	X-ray fluorescence spectroscopy

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