



STS Directory

Accreditation number: STS 0410

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

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Initial accreditation: 23.06.2004
Current accreditation: 23.06.2019 to 22.06.2024
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 21.03.2023

Testing laboratory for concrete, aggregates, soils, rocks, natural stones and recycling materials

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)
(Hardened) concrete	Wear test using the grinding wheel according to Böhme	DIN 52108
	Performance test - reactivity of a concrete mixture against alkali reaction (AAR)	NF P18-454
	Determination of water infiltration rate	SIA 262/1 appendix A resp. SN 505 262/1
	Determination of the resistance to chlorides	SIA 262/1 appendix B resp. SN 505 262/1
	Determination of the Freeze-thaw resistance	SIA 262/1 appendix C resp. SN 505 262/1
	Determination of the resistance to sulfates	SIA 262/1 appendix D resp. SN 505 262/1
	Resistance to alkali-aggregate reaction (AAR): performance test	SIA 262/1 appendix G resp. SN 505 262/1



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(Hardened) concrete	Determination of resistance to carbonation	SIA 262/1 appendix I resp. SN 505 262/1
	Performance test - reactivity of a concrete mixture against alkali reaction (AAR)	SIA guideline 2042, appendix F, repealed standard resp. SNR 592042, appendix E
	Determination of secant modulus of elasticity in compression	SN EN 12390-13 resp. SIA 262.263
	Making and curing specimens for strength tests	SN EN 12390-2 resp. SIA 262.252
	Compressive Strength of test specimens	SN EN 12390-3 resp. SIA 262.253
	Determination of Density of hardened concrete	SN EN 12390-7 resp. SIA 262.257
	Determination of the Freeze-thaw resistance according to norm: Concrete paving blocks - Requirements and test methods	SN EN 1338 annex D resp. SIA 246.508
	Determination of the Freeze-thaw resistance according to norm: Concrete paving flags - Requirements and test methods	SN EN 1339 annex D resp. SIA 246.509
	Determination of the Freeze-thaw resistance according to norm: Concrete kerb units - Requirements and test methods	SN EN 1340 annex D resp. SIA 246.510
	Determination of chloride content in hardened concrete - Products and systems for the protection and repair of concrete structures	SN EN 14629 resp. SIA 262.496
Concrete structures and elements	Taking, examining and testing in compression cored specimens of concrete in structures	SN EN 12504-1 resp. SIA 262.213
(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Abrasiveness and crushability test on aggregates	NF P18-579
	Test methods of reactivity against alkali of aggregates - Microbar rapid test	NF P18-594



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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Microbar test - Test methods of reactivity against alkali of aggregates	SIA guideline 2042, appendix E, repealed standard resp. SNR 592042, appendix D
	Mineralogy and qualitative and quantitative petrography of aggregates	SN 670 115
	Determination of resistance of aggregates to fragmentation	SN EN 1097-2 resp. SN 670 903-2
	Determination of loose bulk density and voids of aggregates	SN EN 1097-3 resp. SN 670 903-3
	Determination of the water content of aggregates by drying in a ventilated oven	SN EN 1097-5 resp. SN 670 903-5
	Determination of particle density and water absorption of aggregates	SN EN 1097-6 resp. SN 670 903-6
	Determination of the polished stone value of aggregates (PSV)	SN EN 1097-8 resp. SN 670 903-8
	Determination of resistance of aggregates to fragmentation according to norm: Aggregates for railway ballast	SN EN 13450 annex C resp. SN 670 110
	Determination of particle shape of aggregates; length according to norm: Aggregates for railway ballast	SN EN 13450 resp. SN 670 110
	Determination of resistance of aggregates to freezing and thawing	SN EN 1367-1 resp. SN 670 904-1
	Magnesium sulfate Test of aggregates	SN EN 1367-2 resp. SN 670 904-2
Determination of acid-soluble sulfates according to norm: Tests for chemical properties of aggregates - Part 1: Chemical analysis	SN EN 1744-1 resp. SN 670 905-1	
Determination of water soluble chloride salts according to norm: Tests for chemical properties of aggregates - Part 1: Chemical analysis	SN EN 1744-1 resp. SN 670 905-1	



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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	Determination of water-soluble sulfates according to norm: Tests for chemical properties of aggregates - Part 1: Chemical analysis	SN EN 1744-1 resp. SN 670 905-1
	Determination of total sulfur content according to norm: Tests for chemical properties of aggregates - Part 1: Chemical analysis	SN EN 1744-1 resp. SN 670 905-1
	Determination of lightweight contaminants according to norm: Tests for chemical properties of aggregates - Part 1: Chemical analysis	SN EN 1744-1 resp. SN 670 905-1
	Determination of acid soluble chloride salts in aggregates	SN EN 1744-5 resp. SN 670 905-5
	Determination of the influence of recycled aggregate extract on the initial setting time of cement	SN EN 1744-6 resp. SN 670 905-6
	Methods for sampling aggregates	SN EN 932-1 resp. SN 670 901-1
	Methods for reducing laboratory samples of aggregates	SN EN 932-2 resp. SN 670 901-2
	Procedure and terminology for simplified petrographic description	SN EN 932-3 resp. SN 670 901-3
	Microscopic examination (petrographic description on thin section) according to norm: Procedure and terminology for simplified petrographic description	SN EN 932-3 resp. SN 670 901-3, modified procedure
	Determination of particle size distribution of aggregates - Sieving Method	SN EN 933-1 resp. SN 670 902-1
Tests for geometrical properties of aggregates - Classification test for the constituents of coarse recycled aggregate	SN EN 933-11 resp. SN 670 902-11	
Determination of Particle Shape of aggregates - Flakiness Index	SN EN 933-3 resp. SN 670 902-3	
Determination of particle shape of aggregates; shape index	SN EN 933-4 resp. SN 670 902-4	



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(Mineral-) aggregates, sand, gravel, coarse aggregates, crushed stones, filler, unbound materials, etc.	<p>Determination of percentage of crushed and broken surfaces in coarse aggregate particles</p> <p>Determination of flow coefficient of aggregates</p> <p>Cerchar test for the determination of the hardness and abrasiveness of stones</p>	<p>SN EN 933-5 resp. SN 670 902-5</p> <p>SN EN 933-6 resp. SN 670 902-6</p> <p>Valentin, A.: Test Cerchar pour la mesure de la dureté et de l'abrasivité des roches. Annexe de l'exposé présenté aux Journées d'Information « Techniques de creusement » Novembre 1974, Luxembourg resp. ASTM D 7625-10</p>
Soft rocks, soils, ground	<p>Test of swelling due to freeze and CBR test of soils after thaw (CBRF)</p> <p>Determination of the consistency limits (liquid limit and plastic limit of soils, 3-point method)</p> <p>Test methods for the determination of the laboratory reference density and water content (unbound and hydraulically bound mixtures). Proctor compaction</p> <p>Test method for the determination of California Bearing ratio, immediate bearing index and linear swelling</p> <p>Determination of Atterberg limits (Laboratory testing of soil)</p> <p>Determination of particle size distribution (soils)</p> <p>Determination of the Point Load Strength Index of Rock (Franklin test)</p> <p>Method for Determining Point Load Strength - Point Load Test</p>	<p>SN 670 321</p> <p>SN 670 345, repealed standard</p> <p>SN EN 13286-2 resp. SN 670 330-2</p> <p>SN EN 13286-47</p> <p>SN EN ISO 17892-12</p> <p>SN EN ISO 17892-4 resp. SN 670 340-4</p> <p>ASTM D5731, modified procedure</p> <p>ISRM (1985) International Society for Rock Mechanics, Commission on Testing Methods, Int. J. Rock Mech. Min. Sci. & Geomech. Abstr., Vol. 22, No. 2, pp. 51-60, 1985</p>



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Rocks, natural stones	Determination of the Uniaxial Compressive Strength of Rock Core Specimens and Poisson coefficient Determination of static elastic modulus Determination of uniaxial compressive strength	SN 670 353 SN EN 14580 resp. SIA 246.222 SN EN 1926 resp. SIA 246.202

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

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