



STS Directory

Accreditation number: STS 0370

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

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Initial accreditation: 31.01.2003
Current accreditation: 31.01.2023 to 30.01.2028
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 31.01.2023

Testing laboratory for fastening technology, mechanical and physical material 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)
Sampling		ISO 3269
Hardness	Hardness Vickers, HV 5 / 10 / 20 / 30	SN EN ISO 6507-1, ISO 898-1, ISO 898-2
	Micro hardness, 0.1 / 0.3 / 0.5 / 1.0	ISO 898-5, ISO 898-6, DIN 267-26
	Case hardness	ISO 2702, Specification No. 5, ecosyn 10.09.01.99
	Surface hardness	ISO 2702, Specification No. 5, DIN 7500, ecosyn 10.09.01.99
Screws	Tensile test, M 3 - M 33, max. 600 kN	ISO 6892, ISO 898-1, ISO 3506-1
	Proof load, M 3 - M 33, max. 600 kN	ISO 898-1
	Wedge tensile test, M 3 - M 33, max. 600 kN 4°, 6°, 10°	ISO 898-1



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Screws	Torsional test / min. torques, 2 Ncm – 160 Nm	
	Steel screws	ISO 898-7
	Stainless screws	ISO 3506-1
	Sheet metal screws	ISO 2702
	Thread forming, Head soundness, M3 - M16 , 60°; 80°	Specification No. 5, DIN 7500 ISO 898-1
Set screws	Proof torque	ISO 898-5, ISO 3506-3
Nuts	Proof load, M 3 - M 33, max. 600 kN	ISO 898-2, ISO 3506-2
Recess	Recess / penetration depth:	
	Pozidrive, Gr. 0, 1, 2, 3	ISO 4757
	Phillips, Gr. 0, 1, 2, 3	ISO 4757
Thread	Hexalobular, X 6, 8, 10, 15, 20, 25, 27, 30, 40, 45, 50	ISO 10664
	Measuring device:	
	Ring gauges, M 1 – M 48	DIN ISO 1502
	Plug gauges, M 1 – M 80	DIN ISO 1502
	Pitch diameter, max. 75 mm	DIN ISO 1502
Measurements	Limit Roller Gauge, M 2 – M 72	DIN ISO 1502
	Outside micrometer, max. 105 mm	
	Calipers, max. 300 mm	
Heat treatment	Digital height gauge, max. 350 mm	
	Decarburization HV 0.3	ISO 898-1, ISO 898-5
Roughness	Surface roughness, Ra, Rz, R max.	SN EN ISO 4287
Friction coefficient	Friction coefficient	DIN 946 (1999-10)
	Thread torque, clamp force testing, M 3 – M 36, max. 4000 Nm / 700 kN	Complementary: SN EN ISO 16047
Surface coating thickness	X-ray fluorescence	
	Zinc, Nickel	ISO 3497/ISO 4042
	Zinc flake coatings	DIN EN ISO 10683
Environment simulation test	Salt spray test	DIN EN ISO 9227 NSS



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Visual Inspection (VT)	Surface discontinuities	ISO 6157-1, ISO 6157-2, ISO 6157-3
Chemical analysis	Optical emissions vacuum spectrometry, Fe, Cu, Al, Ni, Ti	ASTM E 415
Torque analysis of fasteners and joints	Fastener analyzing system 2 Ncm – 160 Nm - Driving torque - Stripping torque - Assembly torque - Thread forming torque - Break loose torque - Disassembling torque - Failure Breaking torque - Go on torque	DIN 267-27, DIN 267-28 EN ISO 7085, BOS Spec. Nr. 5 (in dependence on DIN 7500) EN ISO 2320 DIN EN ISO 15330 Bossard Technical information for fasteners: Direct assembly

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

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