



**Accreditation number**                    **STS 104**  
Accreditation standard ISO/IEC    17025:2005

## STS Directory

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### Testing laboratory for metallography and material controls, corrosion and wear tests, nickel release tests, analysis through atomic absorption spectrography, qualitative and quantitative analysis through scanning electron microscopy SEM/EDX

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[www.sas.ch](http://www.sas.ch) (accredited bodies)

#### Scope of accreditation in December 2009

Group of products or materials, field of activity	Principle of measurement <sup>2)</sup> (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Metallography controls	Measurements of coating thickness-microscopically method	SN EN ISO 1463:2003
	Scanning electron microscope method	SN EN ISO 9220:1988
Watch cases and accessories	Gold alloy coverings Determination of thickness	SN EN ISO 3160-2:2003
Electrodeposited gold and gold alloy	Thickness measurement	SN EN ISO 27874:2008
Steels	Microscopic examination to assess the content of non-metallic inclusions	DIN 50602:1985
	Micrographic determination of apparent grain size	SN EN ISO 643:2003

1) Type A: It is not allowed to change the scope  
2) Type B: Optimizing defined test methods (adapt to client's needs, adapted standards) is allowed  
3) Type C: Introduction of additional test methods for the different types of tests is allowed



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Materials testing	Vickers and Knoop microhardness tests	SN EN ISO 4516:2002
Metallic coatings	Vickers hardness test	SN EN ISO 6507-1:2005
Metallic coatings on metallic substrates	Ductility test	SN EN ISO 8401 : 1986
Metallic coatings on metallic substrates	Adhesion test	SN EN ISO 2819: 1980
Electrodeposited gold and gold alloy	Adhesion test	SN EN ISO 27874:2008
Material testing	Screening test for nickel release from alloys and coatings in items that come into direct and prolonged contact with the skin	CR EN 12471 : 2002
Nickel release	Reference test method for release of nickel from products intended to come into direct and prolonged contact with the skin	SN EN 1811+A1:2008
	Method for the simulation of wear and corrosion for the detection of nickel release from coated items	SN EN 12472:2006
Watch cases and accessories	"Polyservice" abrasion test	ETA 10 303, 2.5 : 1983
	Salt agents test	NIHS 96-50 : 1992
	Corrosion tests in artificial atmospheres- Salt spray tests	SN EN ISO 9227: 2006
	Sea water test	DIN 50 907 : 1952, NIHS 96-50 : 1992

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Group of products or materials, field of activity	Principle of measurement <sup>2)</sup> (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Watch cases and accessories- Assessment resistance against chemical and climatical agents	Synthetic sweat test	NIHS 96-50 : 1992 SN ISO 3160-2:2003
	Sunray test	NIHS 96-50 : 1992
	Sulphur agents test	NIHS 96-50 : 1992
	Thioacetamide corrosion test (TAA test)	SN EN ISO 4538:1978
	Chlorinated agents test	NIHS 96-50 : 1992
	Thermal shock test	NIHS 96-50 : 1992
	Test on the influence of leather or synthetic material straps (agressivity test)	NIHS 96-50 : 1992
Paints and varnishes	Determination of resistance to humidity	SN EN ISO 6270-2 : 2005
Watch cases and accessories	Tropical climate test	40/92-DIN 50015 : 1975 abrogated norm
Corrosion test, resistance against chemical and climatical agents	Porosity control by acetic acid on gold coated watch cases	NIHS 96-11 : 1993 SN ISO 3160-2 : 2003
Analyses by atomic absorption spectrography (SAA, AAS)	Determination of the gold content of a deposit	SN ISO 3160-2 : 2003 SN EN ISO 27874:2008
Materials analysis	Qualitative and quantitative analyses by scanning electron microscope SEM EDX	SEM EDX internal procedure SOP 7.3.15

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