



## STS Directory

Accreditation number: STS 0104

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

Laboratoire Dubois SA  
Alexis-Marie Piaget 50  
P.O. Box 979  
2301 La Chaux-de-Fonds

Head: Mirko Kipfer  
Responsible for MS: Alain Ramseyer  
Telephone: +41 32 967 80 00  
E-Mail: [contact@laboratoiredubois.ch](mailto:contact@laboratoiredubois.ch)  
Internet: <http://www.laboratoiredubois.ch>  
Initial accreditation: 28.02.1995  
Current accreditation: 01.12.2019 to 30.11.2024  
Scope of accreditation see: [www.sas.admin.ch](http://www.sas.admin.ch)  
(Accredited bodies)

### Scope of accreditation as of 01.12.2019

**Testing laboratory for metallography and material controls, corrosion and wear tests, qualitative and quantitative analyses through scanning electron microscopy (SEM/EDX), nickel release tests, chemical analyses through optical emission spectrometry (ICP-OES), Fourier transform infrared spectrometry (FTIR), atomic absorption spectrometry (AAS), gas (GC) and liquid (HPLC) chromatography, shock tests on watches and micro technical mechanisms, ageing tests**

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	Measurement of coating thickness by optical cross section  Scanning electron microscope method  Thickness measurement of electrodeposited gold and gold alloy  Steels-Microscopic examination to assess the content of non-metallic inclusions	ISO 1463 : 2003 ISO 3160-2 : 2003  ISO 9220 : 1995  ISO 27874 : 2008  DIN 50602 : 1985 withdrawn ISO 4967 : 2013



## STS Directory

## Accreditation number: STS 0104

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)
Materials testing	Steels-Micrographic determination of apparent grain size	ISO 643 : 2003
	Vickers and Knoop hardness and micro hardness tests	ISO 6507-1 : 2018
Metallic coatings on metallic substrates	Adhesion test	ISO 2819 : 2017 ASTM B571 : 2013 NF S80-772 : 2010
Watch cases and accessories- Assessment resistance against chemical and climatic agents	Salt spray test	NIHS 96-50 : 2017 ISO 9227 : 2017
	Synthetic sweat test	NIHS 96-50 : 2017 ISO 3160-2 : 2015
	Sunray test Osram	NIHS 96-50 : 1992 withdrawn
	Sunray test Xenon	NIHS 96-50 : 2017
	Thioacetamide corrosion test	NIHS 96-50 : 2017
	Sulphur agents test	NIHS 96-50 : 2017
	Test on the influence of contact between materials straps	NIHS 96-50 : 2017
	Solvents test	NIHS 96-50 : 2017
	Thermal shock test	NIHS 96-50 : 2017
	Damp heat test	NIHS 96-50 : 2017
Watch cases and accessories	"Polyservice" wear test Scratch resistance test Impact resistance test	ISO 23160 : 2011
Materials analysis	Qualitative and quantitative analyses by scanning electron microscope SEM EDX	SEM EDX internal procedure SOP 7.3.15
Flexible watch wristlets	Tensile-torsion test	Internal procedure SOP 7.3.71
Rigid and semi-rigid watch wristlets	Tensile-torsion test	Internal procedure SOP 7.3.72
Watch heads, watch movements and micro technical mechanisms	Chronofiable® aging cycle shock tests	Internal procedure SOP 7.3.30
	Customized shock tests from 10G to 1000G	Internal procedure SOP 7.3.35
Shock-resistant wrist watches	Shock tests according to ISO 1413	ISO 1413 : 2016



## STS Directory

## Accreditation number: STS 0104

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)
Various items	Accelerated climatic ageing	Internal procedure SOP 7.3.73
Material testing	Screening test for nickel release from alloys and coatings in items that come into direct and prolonged contact with the skin	CEN CR 12471 : 2002
Nickel release	Method for the simulation of wear and corrosion for the detection of nickel release from coated items	EN 12472+A1 : 2009
	Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin	EN 1811 : 2011+A1 : 2015
Gold coating	Determination of the gold content	ISO 3160-2 : 2003 ISO 27874 : 2008
Sterile hypodermic needles for single use	Limits of acidity or alkalinity and threshold values for extractable metals	ISO 7864 : 2016
Medical devices	Extraction/cleanliness of pieces	ISO 10993-12 : 2012 ISO 19227 : 2018
Water quality	Extraction of hydrocarbons (C10_C40)	ISO 9377-2 : 2000
	Determination of hydrocarbon oil index (C10-C40)	ISO 9377-2 : 2000
	Determination of Total Organic Carbon (TOC)	ISO 8245 : 1999 EN 1484 : 1997 Ph. Eur. 2.2.44 USP 643
	Measurement of conductivity	Ph. Eur. 2.2.38 USP 645
Perfluoropolyether	Determination of total hydrocarbons by FTIR	USP 854
Leathers, tissues, polymers	Preparation of chemical test samples	ISO 4044 : 2017 Internal procedure SOP 7.3.39
	Determination of pH	ISO 4045 : 2018 ISO 3071 : 2005

1) Scope of accreditation type A (fix)

2) Scope of accreditation type B (flexible)

3) Scope of accreditation type C (flexible)



## STS Directory

## Accreditation number: STS 0104

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)
	Determination of chromium VI content	ISO 10195 : 2018 ISO 17075-1 : 2017 ISO 17075-2 : 2017
	Chemical determination of formaldehyde content	ISO 17226-1 : 2018
	Determination of polycyclic aromatic hydrocarbons (PAH)	ZEK 01.4-08 AfPS GS 2014 : 01
	Chemical determination of dimethyl fumarate (DMFU) content	ISO/TS 16186 : 2012
	Determination of volatile matter in leathers	ISO 4684 : 2005
	Chemical determination certain aromatic amines derived from azo colorants	ISO 17234-1 : 2015 ISO 14362-1 : 2017
	Chemical test for the determination of 4-aminoazobenzene in dyed leathers	ISO 17234-2 : 2011 ISO 14362-3 : 2017
	Determination of the preservative content (TCMTB,PCMC,OPP,OIT) in leathers	ISO 13365 : 2011
	Chemical determination of the total content of metal using ICP	ISO 17072-2 : 2019
	Chemical determination of short-chain chlorinated paraffins C10-C13	ISO 18219 : 2015
	Chemical determination of phthalates	ISO/TS 16181 : 2011
	Mercaptobenzothiazole (MBT) and Mercaptobenzothiazoldisulfide (MBTS)	Internal procedure SOP 7.3.51

\* / \* / \* / \* / \*