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Swiss Confederation

#### STS Directory

Federal Department of Economic Affairs, Education and Research EAER

State Secretariat for Economic Affairs SECO Swiss Accreditation Service SAS

### Accreditation number: STS 0535

International standard:	ISO/IEC 17025:2017	
Swiss standard:	SN EN ISO/IEC 17025:20	18
Metallo-Tests SA Rue de la Paix 101 2300 La Chaux-de-Fonds	Head:	Philippe Girardin
	Responsible for MS:	Sandra Wermeille
	Telephone:	+41 32 967 99 11
	E-Mail:	info@metallo-tests.ch
	Internet:	www.metallo-tests.ch
	Initial accreditation:	27.04.2010
	Current accreditation:	27.04.2020 to 26.04.2025
	Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 11.10.2023

Testing laboratory for chemical analyses (ICP, GC, HPLC and UV-VIS), EDX analyses and SEM examination, physicochemical analyses of materials and metallographic examination, waterproofness checking, environmental tests (corrosion, UV, climatic), strain and wear tests of watch components

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)
Chemical analysis	Nickel release by ICP-OES	EN 1811
	Preparation of samples	ISO 4044
	pH measurement in leathers	ISO 4045
	pH measurement in textiles	ISO 3071
	Formaldehyde in leathers	ISO 17226-1, ISO 17226-2
	Formaldehyde in textiles	ISO 14184-1

12.03.2022 / J

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2) Scope of accreditation type B (flexible) 3) Scope of accreditation type C (flexible)

1) Scope of accreditation type A (fix)

3) Scope of accreditation type C (flexible)



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	Chromium VI in leathers by CI	ISO 17075-2, ISO 10195 (Ageing)
	Azo dyes in leathers	ISO 17234-1 & 2
	Azo dyes in textiles	ISO 14362-1 & 3
	Total metal content in:	
	- leathers	ISO 17072-2
	- Steel	EN 10351
	- Polymers	EN 62321
	Polycyclic aromatic hydrocarbons	AfPS GS 2019:01 PAK
Chemical analysis	Determination of acetone extracta- ble substances	In-house method MON-C.211
	Phthalates	ISO 16181-1
	Phthalates in textiles	ISO 14189
	Dimethyl fumarate (DMFu)	ISO/TS 16186
	Dimethylformamide (DMF) +Dimetylacetamide (DMAc)	In-house method adapted from ISO/TS 16189
	Short-Chain chlorinated Paraffin's (SCCP)(C10-C13) and Medium Chain chlorinated Paraffin's (MCCP) (C14-C17)	ISO 18219-1 and 18219-2
	UV Stabilizers (UV-320, UV-327 and UV-328)	In-house method MON-C.229
EDS analysis	Qualitative and semi-quantitative analysis (elements starting from Boron [B])	In house method MON-CM.301
SEM examination	Observation and default detection	In house method MON-CM.301
	Steel grain size determination	ISO 643, ASTM E-112
Metallographic examination	Inclusion rate	NF EN 10247
	Intermetallic precipitate detection (delta ferrite, sigma phase)	In-house method MON-MC.313

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Physicochemical analysis of materials	Thickness coating measurement by optical or SEM method	ISO 1463
	Vickers micro hardness (10 to 10'000 g)	ISO 4516, ISO 6507-1
	Knoop micro hardness (10 to 10'000 g)	ISO 4516, ISO 4545-1
	Shore A hardness	ISO 48-4
Waterproof control	Water tightness test Micro leaks detection	ISO 22810, NIHS 92-20, ISO 6425, NIHS 92-11
Environmental tests	Salt spray test	ISO 9227 - NIHS 96-50
	Synthetic sweat test	ISO 12870, NIHS 96-50
	Sulphur agents	NIHS 96-50
	Solar radiation test	NIHS 96-50, ISO 105 A02, EN 60068-2-9
	Climatic ageing test	In-house method MON-E.113
	Heat-Humidity test	NIHS 96-50, EN 60068-2-67
	Stain test	In house method adapted from ISO 11378-2, ISO 105 A02
Strain and wear tests of watch components	Wear tests using ceramic balls in Turbula T2C	ISO 23160, NIHS 96-22
	Leather colour fastness tests (Veslic)	ISO 11640, ISO 105-A02, ISO 105-A03
	Pendulum sheep test	ISO 1413, NIHS 91-10
	Kinetic energy of glass rupture	ISO 14368-3, NIHS 61-13
	Fine scratches	ISO 23160 §5
	Metallic strap ageing:	
	- Traction and torsion test	In-house method MON-MC.010
	- Wrist random movements	In-house method MON-MC.013
	- Disordered movements	In-house method MON-MC.014
	Clasp wear	In-house method MON-MC.016

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Strain and wear tests of watch	Crown function wear & Gasket crown wear	In-house method MON-MC.015 ISO 6425, NIHS 92-11
components	Push-button function wear In-house method MON	In-house method MON-MC.026
	Rotary bezel wear	In-house method MON-MC.029

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

Abbreviation	Signification
ASTM	American Society for Testing Materials
EN	European Norms
ISO	International Organization for Standardization
NIHS	Standard oft the Swiss watch industry

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1) Scope of accreditation type A (fix) 2) Scope of accreditation type B (flexible)

3) Scope of accreditation type C (flexible)