



STS Directory

Accreditation number: **STS 0455**

International standard

ISO/IEC 17025:2017

Swiss standard:

SN EN ISO/IEC 17025:2018

Ugra

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für Druck- und Medientechnik
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Initial accreditation:

02.03.2006

Current accreditation:

02.03.2021 to 01.03.2026

Scope of accreditation
see:

www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 22.12.2023

Testing laboratory for tests on materials and products from the printing, paper and packaging industry as well as security printing

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)
Paper, security paper	Bursting strength	ISO 2758, ISO 3689 (wet)
	Bending resistance	ISO 2493, ISO 5628
	Accelerated ageing	ISO 5630-1, -3, -4
	Thickness	ISO 534, ISO 12625-3
	Double fold number according to Schopper	ISO 5626
	Tearing resistance (Elmendorf method)	ISO 1974
	E-modulus / tensile test	ISO 1924-2
	Grammage	ISO 536, 12625-6
	Gloss measurement (Measurement angle 20°, 75°)	ISO 8254-1
	Air permeance (Bendtsen)	ISO 5636-3

1) Scope of accreditation type A (fix)

2) Scope of accreditation type B (flexible)

3) Scope of accreditation type C (flexible)

Definition of flexibility see SAS Document 741



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Paper, security paper	Sampling	ISO 186, FEFCO 1
	Sample pretreatment	ISO 187, ISO 139
	Pull test (Ugra)	SOP 2035
	pH-value (cold and hot extraction)	ISO 6588-1, -2
	Evidence of PVOH/PVA	SOP 2076
	Roughness (Bendtsen)	ISO 8791-2
	Friction behaviour (static and sliding friction)	ISO 15359
	ISO Brightness (Whiteness), CIE Whiteness, Reflection factor, Opacity CIE Lab, Remission	ISO 2470, 2471, 2469, 11475, 11476, 3688, 5631, EN 12625-7
	Water absorptiveness (Cobb)	ISO 535
	Curl of paper	ISO 11556, 14968
	Tensile test	ISO 1924-2, ISO 3781, EN 12625-4
	IGT crumpling test (Crumpling of paper or banknotes)	SOP 2092, IGT 11.02
	Residue (Ash content)	ISO 2144
	Determination of the number of security fibres	SOP 2090
Corrugated board	Bursting strength	ISO 2759, ISO 3689 (wet), FEFCO 4
	Accelerated ageing	ISO 5630-1, -3, -4
	Thickness	ISO 534, FEFCO 3
	Puncture test	ISO 3036, FEFCO 5
	Grammage	ISO 3039, FEFCO 2, FEFCO 10
	Flat crush resistance (FCT)	EN ISO 3035, FEFCO 6
	Edgewise crush resistance (ECT)	ISO 3037, FEFCO 8
	Ring crush resistance (RCT)	ISO 12192
	Compression and stacking test (BCT)	FEFCO 50, SOP 2022
	Water absorptiveness (Cobb)	ISO 535, FEFCO 7
	Water resistance of the glue bond	ISO 3038, FEFCO 9



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Banknotes	Lifetime simulation test: – Soiling of banknotes in the dirt bath (STM1)	SOP 2060
	– Crumpling of banknotes (LTT1)	SOP 2061
	– Abrasion and roughening of banknotes (STM1)	SOP 2062
	– Determination of the limpness of banknotes (BLA)	SOP 2063
	– Inspection of banknotes under infrared, UV and visible light (optical soiling analysis)	SOP 2070
	Resistance to chemicals	SOP 2088
	Pelican test (varnishing)	SOP 2086
	Detection of magnetic ink	SOP 2087
	Tesa-test OVD	SOP 2089
	IGT crumpling test	SOP 2092, IGT 11.02
	Abrasion resistance of security features (Prüfbau)	SOP 2077
Light resistance/colour fastness to artificial light (xenon arc light, D65)	SN EN ISO-105 B02, SOP 2058	
Films, plastic films	Thickness	ISO 4593
	Puncture test	SOP 2081
	Dart-Drop (Impact test)	ISO 7765-1, ASTM D1709, SOP 2084
	Grammage	DIN 53365
	Friction behaviour (static and sliding friction)	ISO 8295
	Transparency	SOP 2083
	Tear propagation test	ISO 11897
Tensile test	ISO 527-1, -3	
Self-adhesive labels	Light resistance/colour fastness to artificial light (xenon arc light, D65)	SN EN ISO 105-B02, SOP 2058
	Determination of adhesive strength (180° pull-off angle)	FINAT FTM1, FTM4



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Self-adhesive labels	Ageing resistance / environmental simulation in the climate and heating cabinet	SOP 2091
Waste bag inspection according to OKS guideline	Sample preparation	SOP 2080
	Puncture test	SOP 2081
	Determination of dimensions	SOP 2082
	Determination of the maximum tensile force	SOP 2085
Carrier bags and bags	Lifting test on carrier bags	SOP 2011
	Static hanging test on carrier bags	SOP 2067
	Shock test on carrier bags	SOP 2068
	Dart-Drop (Impact test)	ISO 7765-1, ASTM D1709, SOP 2084
Packaging	Vertical impact test by dropping (Box crash test)	ISO 2248
	Compression and stacking test (Box compression test)	SOP 2022
	Environmental simulation in the climate chamber	SOP 2091, Order related
	Adhesive strength (180° pull-off angle)	FINAT FTM1, FTM4
Prints and printing inks	Light resistance/colour fastness to artificial light (xenon arc light, D65)	SN EN ISO 105-B02, SOP 2058
	Colorimetric measurement	ISO 5631-2, 13655
	Abrasion resistance (Prüfbau)	SOP 2077

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



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Abbreviation	Signification
ASTM CIE	American Society for Testing and Materials Commission internationale de l'éclairage - International Lightning Commission
FEFCO	Fédération Européenne des Fabricants de Carton Ondule (obsolete ref.; today: European Federation of Corrugated Board Manufacturers)
FINAT	Fédération Internationale des Fabricants et Transformateurs d'adhesifs et thermocollants sur papiers et autres support
FTM	FINAT-Test methods
IGT	Institute for the Graphic Techniques
OKS	Offizieller Kehrichtsack, Official waste bag
SOP	Standard Operating Procedure
TAPPI	Technical Association for the world-wide Pulp, Paper and converting Industry

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