Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER

State Secretariat for Economic Affairs SECO
Swiss Accreditation Service SAS

STS Directory

Accreditation number: STS 0125

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

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Internet:	http://www.rms-foundation.ch
Initial accreditation:	05.09.1995
Current accreditation:	18.08.2020 to 17.08.2025
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 18.08.2020

Testing laboratory for chemical and materialographic analyses as well as physical and mechanical testing of materials

Group of products or materials, field of activity	Principle of measurement [3] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
CHEMICAL AND PHYSICAL ANALYSES OF METALLIC AND NON-METALLIC MATERIALS AND COMPONENTS	X-ray photoelectron spectroscopy (XPS)	ISO 14606, ISO 15472, ISO 19318, ISO 20903, ASTM E1078
	Carrier gas hot extraction (CGHE) (C, S, O, N, H, Ar)	ASTM E1019, ASTM E1447, ASTM E1409, ASTM E1941, SS-118000
	X-ray fluorescence analysis (XRF)	DIN 51418-1, DIN 51418-2, ASTM E1085, ASTM E539, ASTM E572
	X-ray diffraction analysis (XRD)	ISO 13175-3, ISO 13779-2, ISO 13779-3, ISO 13779-6 ASTM F1088

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

Definition of flexibilty see SAS Document 741

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Group of products or materials, field of activity	Principle of measurement [3] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
CHEMICAL AND PHYSICAL ANALYSES OF METALLIC AND NON-METALLIC MATERIALS AND COMPONENTS	Scanning electron microscopy with energy-dispersive X-ray spectroscopy (SEM EDX)	ASTM E1508, ISO 22309 validated in-house tests
	Inductively coupled plasma mass spectroscopy (ICP MS)	ISO 13175-3, ASTM F1185, ASTM F1581, ISO 13779-2, ISO 13779-3, ISO 13779-6, USP<232>, USP<233>, validated in-house tests
	Fourier transform infrared spectroscopy (FTIR)	ASTM E1252
	Differential scanning calorimetry (DSC)	DIN 51007, ISO 11357-1, ISO 11357-2, ISO 11357-3
	Validation of the purification process for the reprocessing of medical devices for reuse (protein determination, BCA method)	ISO 15883-1, ISO 15883-5, FDA Guidance: Reprocessing Medical Devices in Health Care Settings: Validation Methods and Labeling, validated in-house tests
	Technical cleanliness	VDA 19.1 Part 1, ISO 16232
	Residual moisture content	Ph. Eur. 2.2.32, ASTM D6980
	Cohesion test of cements / pastes	Validated in-house tests
	Corrosion measurement	ASTM A262, ASTM F1875, ASTM F1089
	Degree of crosslinking of UHMW-PE	ISO 10147, ASTM D2765
	Extend of oxidation in UHMW-PE	ASTM F2102
	Trans-vinylene yield in UHMW-PE	ASTM F2381
	Titrimetric analysis	Validated in-house tests
	pH measurement	DIN 19268, validated in-house tests
	Determination of ash	ISO 3451-1, ISO 1172 (Method A)
	Loss on ignition of calcium phosphate	ISO 13779-6

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Group of products or materials, field of activity	Principle of measurement [3] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
PHYSICAL AND MECHANICAL TESTS OF METALLIC AND NON-METALLIC MATERIALS AND COMPONENTS	Tensile test	ISO 6892-1, ASTM E8M, ISO 527-1
	Compression test	DIN 50106, validated in-house tests
	Bending test	SIO 178, ISO 14704 EN 843-1, ISO 7438
	Torsional test	Validated in-house tests
	Notched-bar impact-bending test	ISO 148-1
	Static and dynamic component tests	ISO 7206-4, ISO 7206-6, ISO 14801, ASTM F1717, ASTM F1800, ISO 14879-1 Validated in-house tests
	Wear tests	ISO 14242-1, ISO 14242-2, ASTM F732, validated in-house tests
	Hardness tests (Vickers / Shore)	ISO 6507-1, ISO 868,ASTM D2240
	Layer thickness measurement	ISO 2361,ISO 2178
	Conductivity measurement on non-ferrous metals	EN 2004-1, ASTM E1004
	Specific surface area of powder (gas adsorption, BET method)	ISO 9277
	Particle analyses	ASTM B214, EN 725-8, EN 725-9, ASTM F2003, DIN 66165-2, Validated in-house tests
	Aging test	Validated in-house tests
PHYSICAL AND MECHANICAL TESTS OF METALLIC AND NON-METALLIC MATERIALS AND COMPONENTS		
	Packaging test	ASTM F88/F88M
	Contact angle measurement	DIN 55660-2, ASTM D7334
	Roughness measurement	ISO 4287, ISO 4288, ISO 13565-2
	Crack testing (penetration test)	ASTM E165, ISO 3452-1
	Viscosity measurement	ISO 1628-3, DIN 51562-1

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Group of products or materials, field of activity	Principle of measurement [3] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
MATERIALOGRAPHIC TESTS OF METALLIC AND NON-METALLIC MATERIALS AND COMPONENTS	Density determination	EN 623-2, ISO 1183-1, ISO 18754, ISO 2811-2
	Product failure analysis	VDI 3822
	Scanning electron microscopy (SEM)	Validated in-house tests
	Light microscopy	Validated in-house tests
	Structural examination:	
	- Classification of the microstructure	ISO 20160, ETTC-2, ETTC-4, ETTC-8
	- Classification oft he macrostructure	ETTC-3
	- Non-metallic inclusions, impurities	ISO 4967, ASTM E45, ISO 10247
	- Precipitated phase content	ASTM E562
	- Grain size	ASTM E112, ISO 643, ASTM E1181
ANALYTICAL METHODS	Finite element analyses (FEA)	ASTM F2996, Validated in-house tests

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