



## SCS Directory

Accreditation number: SCS 0136

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

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Initial accreditation: 09.12.2013  
Current accreditation: 09.12.2023 to 08.12.2028  
Scope of accreditation see: [www.sas.admin.ch](http://www.sas.admin.ch)  
(Accredited bodies)

### Scope of accreditation as of 09.12.2023

#### Calibration laboratory for length measurements, coating thickness measurements, elemental analysis and electrical conductivity measurements

##### Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
Length (coating thickness)	0.5 - 500 micrometers ( $\mu\text{m}$ )	Comparison with a certified reference material using electron microscopy	For 0.5 - 1.0 $\mu\text{m}$ : 8 % For 1 - 5 $\mu\text{m}$ : 2 % For > 5 $\mu\text{m}$ : 1 %	
	0.5 $\mu\text{m}$ - 100 millimeters (mm)	Tactile, with electromagnetic method	0.5 $\mu\text{m}$	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty $\pm$ <sup>1)</sup>	Remarks
Coating thickness (mass per area)	From 5 nanometers (nm) to 100 $\mu$ m	ED-XRF, ICP- OES	1 nm	Measuring range and uncertainty vary with the method and the coating structure. Assumption of known density of the coatings.
Elemental analysis of solid materials and solutions	From 10 milligrams per kilogram (mg/kg) to 1000 grams per kilogram (g/kg)	Destructive or non-destructive and contactless (ICP-OES, ED-XRF)	5 mg/kg	Measuring range and uncertainty vary with method and analyte/matrix.
Electrical conductivity of non-ferrous metals	0.3 - 63 megasiemens per meter (MS/m),  0.5 -108 % « International Annealed Copper Standard » (%IACS)	Tactile, phase-sensitive eddy-current measurement	1 % relative	

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

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