



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Federal Department of Economic Affairs,  
Education and Research EAER  
**State Secretariat for Economic Affairs SECO**  
Swiss Accreditation Service SAS

Swiss Confederation

Based on the Accreditation and Designation Ordinance dated 17 June 1996 and on the advice of the Federal Accreditation Commission, the Swiss Accreditation Service (SAS) grants to

**Helmut Fischer AG**  
**Moosmattstrasse 1**  
**6331 Hünenberg**



**Period of accreditation:**  
**09.12.2023 until 08.12.2028**  
(1st accreditation: 09.12.2013)

the accreditation as

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

International standard: ISO/IEC 17025:2017

Swiss standard: SN EN ISO/IEC 17025:2018

3003 Berne, 24.10.2023  
Swiss Accreditation Service SAS

Head of SAS  
Konrad Flück

SAS is a signatory of the multilateral agreements of the European co-operation for Accreditation (EA) for the fields of testing, calibration, inspection and certification of management systems, certification of personnel and certification of products, processes and services, of the International Accreditation Forum (IAF) for the fields of certification of management systems and certification of products, processes and services and of the International Laboratory Accreditation Cooperation (ILAC) for the fields of testing, calibration and inspection.



## 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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