



Schweizerische Eidgenossenschaft
Confédération suisse
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Swiss Confederation

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

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:
09.12.2018 until 08.12.2023
(1st accreditation: 09.12.2013)

the accreditation as

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

International standard: ISO/IEC 17025:2005
Swiss standard: SN EN ISO/IEC 17025:2005

3003 Berne, 09.10.2018
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 and calibration.



SCS Directory

Accreditation number: SCS 0136

International standard: ISO/IEC 17025:2005
Swiss standard: SN EN ISO/IEC 17025:2005

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Initial accreditation: 09.12.2013
Current accreditation: 09.12.2018 to 08.12.2023
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 24.07.2018

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

Calibration and Measurement Capability (CMC)

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



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Coating thickness (mass per area)	From 5 nanometers (nm) to 100 μ m	ED-XRF, SEM-EDX, ICP- OES, coulometry, beta backscattering method	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, SEM-EDX)	5 mg/kg	Measuring range and uncertainty vary with method and analyte/matrix.
Ferrite content of steels	0.3 - 120 FN, 0.3 - 80 percent by volume of ferrite (vol % ferrite)	Tactile, magnetic induction measurement	0.3 FN, 0.3 vol % ferrite	
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	

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