



Schweizerische Eidgenossenschaft  
Confédération suisse  
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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:**  
**09.12.2018 until 08.12.2023**  
(1st accreditation: 09.12.2013)

the accreditation as

**Testing laboratory for length measurements, coating thickness measurements, elemental analysis, electrical conductivity measurements, ferrite content measurements and measurements of mechanical properties**

International standard: ISO/IEC 17025:2017

Swiss standard: SN EN ISO/IEC 17025:2018

3003 Berne, 13.07.2020  
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.



## STS Directory

Accreditation number: **STS 0591**

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: 09.12.2018 bis 08.12.2023  
Scope of accreditation see: www.sas.admin.ch (Accredited bodies)

### Scope of accreditation as of 11.12.2019

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

Group of products or materials, field of activity	Principle of measurement <sup>2)</sup> (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
<p><b>Coating thickness measurements of various coated materials</b></p> <p>(galvanized, anodized, painted materials, PVD, CVD coating structures etc.)</p>	<p><b>Microscopic methods</b></p> <p>Evaluation of ion-beam polished cross-sections with scanning electron microscopy Measuring range: 0.5 - 500 micrometer (µm)</p>	<p>Modified according to: SN EN ISO 9220:1994 SN EN ISO 1463:2004 method: AA_0085_CH_2</p>
<p>(galvanized, anodized, painted materials, PVD, CVD coating structures etc.)</p>	<p><b>Electromagnetic measurement methods</b> (magnetic induction method, amplitude- or phase-sensitive eddy-current methods, micro resistance method)</p>	<p>ISO 2178 ISO 2360 ISO 21968 ISO 14571</p>



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<p><b>Coating thickness measurements of various coated materials</b></p> <p>(galvanized, anodized, painted materials, PVD, CVD coating structures etc.)</p>	<p>Measuring range: ca. 0.1 µm – 100 millimeters (mm)</p> <p>X-ray fluorescence spectroscopy, (ED-XRF) Measuring range: 5 nanometers (nm) – 100 µm</p> <p>Energy dispersive x-ray spectrometry (SEM-EDX) Measuring range: 10 - 500 nm</p> <p>Coulometry Measuring range: 0.1 - 100 µm</p> <p>Beta backscattering method Measuring range: 0.5 - 500 µm</p>	<p>ISO 3497</p> <p>Modified according to: ISO 22309 method: VB_0005_CH</p> <p>ISO 2177</p> <p>ISO 3543</p>
<p><b>Elemental analysis of solid materials and solutions</b></p> <p>(bulk material, coating material, powder)</p>	<p>X-ray fluorescence spectroscopy (ED-XRF) Measuring range: ~10 mg/kg – 1000 g/kg, depending on analyte/matrix</p> <p>Inductively coupled plasma optical emission spectroscopy (ICP-OES) Measuring range: ~10 mg/kg – 1000 g/kg, depending on analyte/matrix</p> <p>Energy dispersive x-ray spectrometry (SEM-EDX) Measuring range: ~3 - 1000 g/kg, depending on analyte/matrix</p>	<p>ISO 3497</p> <p>ISO 11885</p> <p>ISO 22309</p>
<p><b>Electrical conductivity measurement</b></p> <p>of non-ferrous metals</p>	<p>Phase-sensitive eddy-current measurement Measuring range 0.3 - 60 MS/m</p>	<p>DIN EN 2004-1</p>
<p><b>Ferrite content of steels</b></p>	<p>Magnetic induction measurement Measuring range: 0.2 - 80 Fe %, 0.2 - 120 FN</p>	



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<p><b>STEP-Test</b> Electrochemical potentials between individual layers of a multiplex nickel coating system</p> <p><b>Measurement of mechanical properties of bulk materials, coatings, etc.</b> (Martens hardness, indentation modulus)</p>	<p>Coulometric STEP Test Measuring range: 10 - 500 mV</p> <p>Instrumented indentation test</p> <p>Measuring range: Load range: 0.05 – 2000 mN Hardness range: &lt; diamond Indenter: Vickers, Berkovich, semi-spheres</p>	<p>ISO 2177, DIN 50022</p> <p>ISO 14577</p>

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