



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

**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 17025:2005  
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.



## STS Directory

## Accreditation number: STS 0591

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

### Scope of accreditation as of 24.07.2018

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

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)
<b>Coating thickness measurements of various coated materials</b>  (galvanized, anodized, painted materials, PVD, CVD coating structures etc.)	<b>Microscopic methods</b>  Evaluation of ion-beam polished cross-sections with scanning electron microscopy  Measuring range: 0.5 - 500 micrometer (µm)	Modified according to: SN EN ISO 9220:1994 SN EN ISO 1463:2004



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(galvanized, anodized, painted materials, PVD, CVD coating structures etc.)  <b>Coating thickness measurements of various coated materials</b>	<b>Electromagnetic measurement methods</b> (magnetic induction method, amplitude- or phase-sensitive eddy-current methods, micro resistance method)  Measuring range: ca. 0.1 µm – 100 millimeters (mm)	ISO 2178 ISO 2360 ISO 21968 ISO 14571
(galvanized, anodized, painted materials, PVD, CVD coating structures etc.)  <b>Elemental analysis of solid materials</b> (bulk material, coating material, powder) <b>and solutions</b>	X-ray fluorescence spectroscopy, (ED-XRF) Measuring range: 5 nanometers (nm) – 100 µm  Energy dispersive x-ray spectrometry (SEM-EDX) Measuring range: 10 - 500 nm  Coulometry Measuring range: 0.1 - 100 µm  Beta backscattering method Measuring range: 0.5 - 500 µm	ISO 3497  Modified according to: ISO 22309  ISO 2177  ISO 3543
<b>Electrical conductivity measurement</b>  of non-ferrous metals	Phase-sensitive eddy-current measurement  Measuring range 0.3 - 60 MS/m	ISO 3497 ISO 11885 ISO 22309  DIN EN 2004-1



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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>Ferrite content of steels</b></p> <p><b>STEP-Test</b> Electrochemical potentials between individual layers of a multiplex nickel coating system</p> <p><b>Measurement of mechanical properties</b> (Martens hardness, indentation modulus) <b>of bulk materials, coatings, etc.</b></p>	<p>Magnetic induction measurement</p> <p>Measuring range: 0.2 - 80 Fe %, 0.2 - 120 FN</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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