



STS Directory

Accreditation number: STS 0403

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

Eurofins Qualitech AG
Testing laboratory
Almuesenacherstrasse 3
CH-5506 Mägenwil

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Internet: <http://www.qualitech.ch>
Initial accreditation: 18.03.2004
Current accreditation: 07.11.2023 to 06.11.2028
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Site 1
Eurofins Qualitech AG
9423 Altenrhein

Site 2
Eurofins Qualitech AG
2555 Brugg

Site 3
Eurofins Qualitech AG
8404 Winterthur

Scope of accreditation as of 07.11.2023

Testing laboratory for Non-destructive and destructive testing of materials and components made of metal, ceramics, polymers as well as welding procedures for pressure equipment

| Group of products or materials, field of activity | Measurement principle ⁿ⁾ (characteristics, measuring ranges, type of test) | Test methods, remarks (national, international standards, in-house test methods) |
|---|---|--|
| Metals, polymers, ceramics, composites, various assemblies | Non-destructive materials testing by means of industrial computed tomography (iCT) At sites: - Mägenwil - Altenrhein - Brugg - Winterthur | General ASTM E1441 ASTM E1570 ASTM E1695 ASTM E1814 EN 16016-1 EN 16016-2 EN 16016-3 EN 16016-4 ISO 15708-1 ISO 15708-2 |



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| | <p>Radiographic testing RT</p> <ul style="list-style-type: none"> - X-ray tubes up to 450 kV - Cobalt 60 - Iridium 192 - Selen 75 <p>At sites:</p> <ul style="list-style-type: none"> - Mägenwil - Altenrhein (without cobalt) - Brugg - Winterthur <p>Radioscopic testing With X-ray systems up to 160 kV At sites:</p> <ul style="list-style-type: none"> - Mägenwil <p>Digital X-ray (radiography) at sites:</p> <ul style="list-style-type: none"> - Mägenwil - Winterthur - Altenrhein - Brugg | <p>Castings EN 12681-1 EN 12681-2</p> <p>Welded products EN ISO 17636-1 EN ISO 17636-2 EN 1435a) EN ISO 10675-1 EN ISO 10675-2 EN 12517-1/-2-a)</p> <p>Pipes and piping EN ISO 10893-6 EN ISO 10893-7</p> <p>Thermopolymers EN 13100-2</p> <p>Brazed joints EN 12799 EN ISO 18279 Further applicable standards, guidelines, etc.</p> <ul style="list-style-type: none"> - ASME Sec. V Art. 2 - AD2000 - ERI code of practice - SVTI etc. <ul style="list-style-type: none"> - EN 13068-3 |



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| <p>Metals, polymers</p> | <p>Ultrasonic testing UT: - Pulse-echo method - Transmission method - Time-of-flight diffraction method (TOFD) - phased array technique with various ultrasound devices</p> <p>At sites: - Mägenwil - Altenrhein - Brugg - Winterthur</p> <p>Immersion technique At site: - Winterthur</p> | <p>General EN ISO 16810 EN ISO 16811 EN ISO 16823 EN ISO 16826 EN ISO 16827 EN ISO 16828</p> <p>Castings EN 12680-1/-2/-3</p> <p>Forgings EN 10228-3/-4</p> <p>Welded products EN ISO 17640 EN ISO 10863 EN ISO 13855 EN ISO 22825 EN ISO 11699 EN ISO 23279 EN ISO 15626 AD2000 HP5/3 AD2000 HP5/3 Anl.1</p> <p>Pipes and pipelines EN ISO 10893-8/-9/-10/-11</p> <p>Rolled products EN 10307 EN 10308 EN 10160</p> <p>Thermopolymers EN 13100-3</p> <p>Brazed joints EN 12799 EN ISO 18279</p> <p>Other standards to be applied ASME Sec. V Art. 4 ASME Sec. V Art. 5 DIN 54123 SEP 1920, etc.</p> |



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| Metals, polymers | <p>Notched bar impact strength, tensile and compressive strength tests</p> <p>At sites:</p> <ul style="list-style-type: none"> - Mägenwil - Winterthur <p>Notched-bar impact test</p> <ul style="list-style-type: none"> - Temp. -269°C , -196°C and -80°C to +250°C in Winterthur - Temp. -40°C to RT in Mägenwil - (Undersized samples) in Winterthur <p>Tensile and compressive strength testing on steel</p> <ul style="list-style-type: none"> - Temp. -196°C and -80°C to +1000°C in Winterthur <p>Tensile and compressive strength testing on polymers</p> <p>Temp. -80°C to +250°C in Winterthur</p> | <p>EN ISO 14556 EN ISO 148-1 EN ISO 9016 ASTM E23 DIN 50115 EN ISO 4136 EN ISO 6892-1/-2 DIN 50106 ASTM E8 ASTM E21 EN ISO 527-1 to -3 ASTM D638 ASTM D412</p> |
| Metals | <p>Technological tests</p> <p>At sites:</p> <ul style="list-style-type: none"> - Mägenwil - Winterthur <p>Aufschweissbiegeversuch (AUBI; no translation)</p> <p>Tube flattening test</p> <p>Tube drift-expanding tests</p> <p>Site: Winterthur</p> <p>Tube ring-expanding test</p> <p>Site: Winterthur</p> <p>Tube ring tensile test</p> <p>Site: Winterthur</p> <p>Bend test (three- and four-point)</p> <p>Site: Winterthur</p> <p>Bend test (welds)</p> | <p>SEP 1390 EN ISO 8492 EN ISO 8493 EN ISO 8495 EN ISO 8496 EN ISO 7438 EN ISO 5173</p> |



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| Metals, polymers | Technological tests Site: - Winterthur | |
| | Drop weight test (Pellini test) | SEP 1325 ASTM E208 |
| | Component tests - Threshold load tests Info: <2 Hz, Temp. -80°C to +1200°C Site: - Winterthur | DIN 50100 |
| | Materials and failure analysis 3) Site: - Winterthur | |
| Metals and polymers | Surface replica method Field replicas (no assessment and no evaluation on-site) | DIN 54150 ASTM E1351 |
| Metals | X-ray fluorescence analysis | AP_13_17 |
| Metals, polymers and ceramics | Electron beam microanalysis | AP_13_19 |
| Metals | Hot gas extraction analysis | AP_13_21 AP_13_22 |
| | Combustion analysis | AP_13_23 |
| All solid materials | Scanning electron microscopy Topography of surfaces and fracture surfaces; semi-quantitative elemental analyses using EDX analyzer. | AP_13_18 |
| | Particle size analysis | AP_13_70 |
| All crystalline substances | X-ray diffraction | AP_13_20 |
| | Metallographic testing At sites: - Mägenwil - Winterthur | |



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| Metals, polymers and ceramics | Macro- and microsections | EN ISO 3887 EN ISO 1463 ISO 4967 ISO 4505 EN ISO 945-1 DIN 50600 EN 10247 EN ISO 643 ASTM A247 ASTM E112 AP_13_04 ASTM E45 ISO 18265 ISO 4968 ASTM E407 DVS 2310-1 to -3 VdTÜV 451 |
| Metals | Determination of delta ferrite content in austenitic weld metal | EN ISO 17655 DVS 1005 |
| Metals | Corrosion tests At sites: - Winterthur | |
| Metals | Examination for intercrystalline corrosion | EN ISO 3651-1 and -2; SEP 1877, a.o. ASTM A262 Method A-E ASTM G28 Method A and B AP_13_33 AP_13_34 |
| | Corrosion tests At sites: - Winterthur | |
| | Pitting and crevice corrosion | ASTM G48 AP_13_35 |
| | Salt spray test and condensation water test | EN ISO 7253 EN ISO 9227 DIN 50021 ASTM B117 AP_13_32 AP_13_39 |
| | Other tests At locations: - Winterthur | |



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| Polymers and other organic materials | DSC analysis on solids and liquids | DIN EN ISO 11357-1 to -3 ASTM D3418 ASTM F2625 AP_13_36 |
| | TGA analysis on solids and liquids | DIN EN ISO 11358 AP_13_37 |
| | Fourier Transformed Infrared Spectroscopy (FTIR) | AP_13_38 |
| | Fourier Transformed Infrared Spectroscopy (Mikro-FTIR) | AP_13_60 |
| | Hardness Measurement, Shore A and D | DIN EN ISO 868 ASTM D2240 AP_13_98 |
| | Compression Set | DIN ISO 815-1 ASTM D395 AP_13_97 |
| Water samples and other liquids | Measurement of the m-value | AP_13_27_V1 |
| | Measurement of the p-value | AP_13_28_V1 |
| | Measurement of the pH-value of aqueous solutions | AP_13_29_V1 |
| | Measurement of the electrical conductivity of aqueous solutions | AP_13_29_V2 |
| | Photometric measurement of ions in water | AP_13_30_V1 |
| | Total water hardness | AP_13_31 |
| Air samples | Measurement of asbestos fiber concentration in air | AP_13_24 VDI 3492 |
| Welding and brazing processes for the fabrication of pressure equipment | NDT and metallographic examinations At sites: - Mägenwil | |



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|--|--|---|
| Pressure vessels | NDT and metallographic examinations At sites: - Mägenwil | SR 930.114: Regulation on the safety of pressure equipment (Pressure Equipment Regulation, DGV) 2014/68/EU, Annex I, 3.1.2 EU Directive of May 15, 2014 on the harmonization of making available pressure equipment on the market (Pressure Vessels Directive) |
| Simple pressure vessels | NDT and metallographic examinations At sites: - Mägenwil | SR 930.113 Regulation on the safety of simple pressure equipment (Pressure Equipment Regulation, DBV) 2014/29/EU EU Directive of February 26 2014 on the harmonization of making available simple pressure vessels on the market (Pressure Vessels Directive) |
| General principles Industry Sectors: - Service inspection in manufacturing and maintenance | NDT: UT, RT, ET, PT, MT, VT, CR At sites: - Mägenwil - Altenrhein - Brugg - Winterthur | according to standard EN ISO 9712, Annex A |
| Aerospace | | The test center is approved by FOCA according to EASA 145.0226, Part. 145 (Date 24.09.2004) for: - Class: Specialized Services - Rating D1 NDT - UT, RT, ET, PT, MT The test center in Winterthur is certified according to Nadcap |



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| <p>Product Sectors:</p> <ul style="list-style-type: none"> - Castings (c) (ferrous and non-ferrous materials); - Forgings (f) (all types of forgings, ferrous and non-ferrous materials); - Welded products (w) (all types of welded joints, including brazing, for ferrous and non-ferrous materials); - Tubes and pipes (t), (seamless, welded, ferrous and non-ferrous materials, including flat products for the production of welded tubes); - Rolled products (wp) except forgings (e.g. flat products, bars, rods); - Composite materials (p) | <p>NDT: UT, RT, ET, PT, MT, VT, CR</p> <p>At sites:</p> <ul style="list-style-type: none"> - Mägenwil - Altenrhein - Brügg - Winterthur | <p>according to standard EN ISO 9712, Annex A</p> |

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

| Abbreviation | Signification |
|--------------|--|
| a) | Test standard withdrawn; however, test requests continue to be made |
| AD | Administration |
| AP | Work / test instruction |
| ASTM | American Society for Testing and Materials |
| FOCA | Federal Office of Civil Aviation |
| DVS | Deutscher Verband für Schweißen und verwandte Verfahren (German Welding Society) |
| EASA | European Aviation Safety Agency |
| ERI | Eidgenössisches Rohrleitungsinspektorat (no English translation) |
| ET | Eddy current testing |
| MT | Magnetic particle inspection |
| NDT | Non-destructive materials testing |
| OES | Optical emission spectrometry |
| PED | Pressure Equipment Guideline |
| PT | Penetrant testing |



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| Abbreviation | Signification |
|--------------|---|
| SEM | Scanning electron microscopy |
| RT | X-ray (radioscopic) testing |
| SVTI | Schweizerischer Verein für technische Inspektionen (no English translation) |
| UT | Ultrasonic testing |
| VT | Visual testing |

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