

# Damage and material analysis

## Water analysis and consulting

In the industrialized countries, it is no longer possible to imagine life without water as a medium for cooling or heating systems, in air conditioning and ventilation systems, or even in building heating systems. Its good heat capacity, environmental friendliness and easy availability make water the ideal medium for various purposes. However, if the water quality is disregarded, damage can be caused by corrosion, deposits or even bacteria (e.g. legionella). Every year, water-induced corrosion alone causes billions of euros worth of damage throughout Switzerland.



Photometer for the determination of various dissolved Water constituents



Example of a cooling tower used in industry

### Specialities

- Analysis of water samples for corrosion-promoting components
- Determination of the total bacterial count (TBC) of water samples and the detection of legionella
- Training and method development for
- specific customer demands
- Advice on necessary measures

### Delivery time

Depending on the type and scope of the tests carried out or the necessary test duration. Usually 2-3 working days. For more demanding tests, a delivery date is agreed upon in consultation.

### Test methods

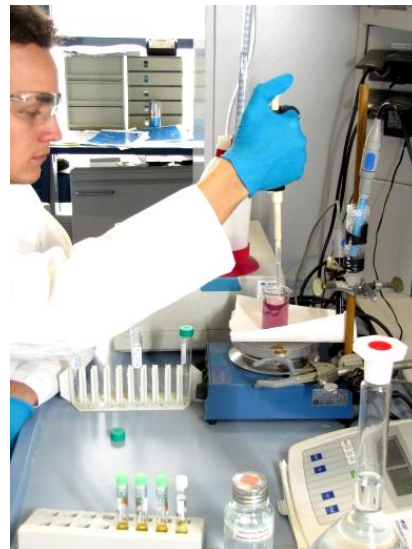
- Determination of conductivity, pH value, p-value and m-value
- Determination of the water hardness
- Photometric detection of various dissolved ions
- Checking the microbiological contamination and detection of legionella
- Analysis of solid residues and corrosion products
- Other test methods on request

### Our services

- Performance of independent water analyses
- Advice on water quality issues and recommendation of appropriate measures against fouling, biofouling and corrosion
- Delivery of suitable sample containers
- Sampling and measurements on site in special cases on request

### Damage analysis

- Investigation of solid residues and corrosion products, e.g. corrosion damage in water-bearing systems
- Preparation of independent expert opinions (e.g. for guarantee claims)



Determination of water hardness by titration

