

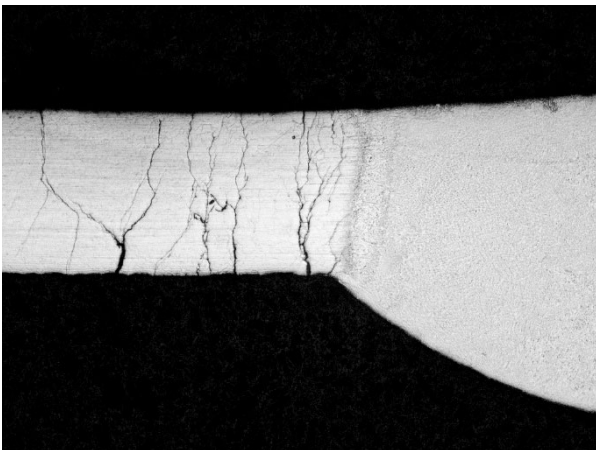
# Damage and material analysis

## Corrosion and corrosion protection

Corrosion costs money - in Switzerland alone, it is estimated that around CHF 10-20 billion is spent on corrosion damage and its repair each year. Corrosion damage, which often jeopardises the environment or even human life, can be largely avoided by applying today's knowledge. Our corrosion specialists have a wide range of expertise from many years of industrial experience.



Corrosion damage to the roller of a conveyor belt



Chloride-induced stress corrosion cracking in austenitic CrNi steel

### Specialities

- Clarification of microbiologically induced corrosion (MIC)
- Development of test equipment for the simulation of special operating conditions
- Training and method development for specific customer requirements
- Thermography on coated parts or on systems to detect internal corrosion points in pipes, localised coating adhesion, etc.

### Test methods

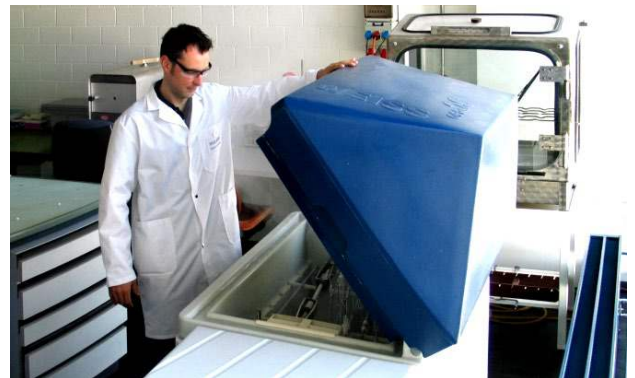
- Ageing tests - also at elevated temperatures and pressures
- Various standardised tests, such as salt spray test, condensation water test, blast test, etc.
- Assessment of surfaces and protective coatings with regard to purity, coating thickness, coating adhesion, etc.

### Our services

- Advice on material selection
- Selection of protective coatings and use of other corrosion protection measures
- Carrying out corrosion analyses and tests
- Quality monitoring through application-orientated tests
- Ageing studies and assessment of the corrosion risk

### Damage analysis

- Clarification of corrosion-related damage
- Preparation of independent expert reports (e.g. for warranty claims)
- Recommendations for damage prevention through choice of materials, protective coatings constructive measures, etc.



Korrosionstest in der Salzsprühnebelkammer

### Delivery time

The delivery time for corrosion tests and corrosion analyses depends heavily on the test conditions. As a rule, a delivery date is agreed in consultation

