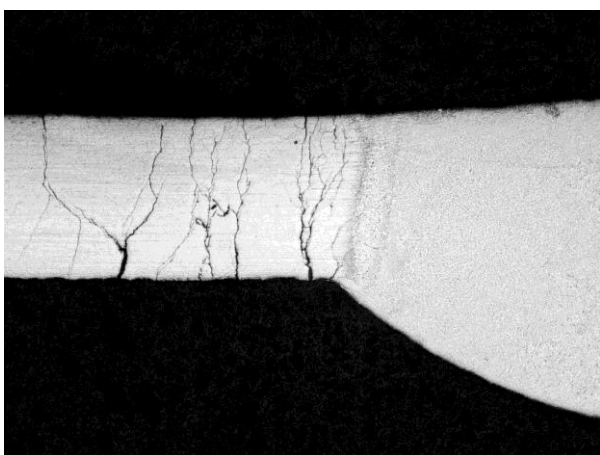# Damage and material analysis
Corrosion and corrosion protection

Corrosion costs money - in Switzerland alone, it is estimated that around 10-20 billion Swiss francs are spent each year on corrosion damage and its repair. Corrosion damage, which often poses a threat to the environment or even human life, can be largely avoided by applying current 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

Choride-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 equipment to detect internal corrosion points in pipes, local layer adhesion etc.
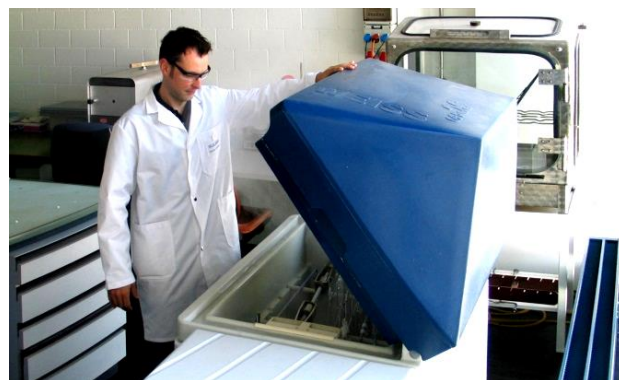
Test methods
- Ageing tests - also at elevated temperatures and pressures
- Various standardised tests, such as salt spray test, condensation water test, bouquet test, etc.
- Assessment of surfaces and protective coatings with regard to purity, coating thickness, coating adhesion, etc.

Our services include
- Advice on questions of material selection
- Selection of protective coatings and use of other corrosion protection measures
- Execution of corrosion investigations and tests
- Quality monitoring through application-oriented examinations
- Ageing studies and estimation of the corrosion risk

Damage analysis
- Clarification of corrosion-related damage
- Preparation of independent expert opinions (e.g.for guarantee claims)
- Recommendations for loss prevention through choice of material, protective coatings, constructive measures etc.

Corrosion test in the salt spray chamber

Delivery time
The delivery time for corrosion tests and corrosion investigations depends strongly on the test frame conditions. Usually a delivery date is agreed upon in consultation.