



Our industrial scientists provide a range of services and advice related to material corrosion.

Corrosion Analysis

- ▶ Determination of corrosion rates
- ▶ Laboratory metal coupon testing
- ▶ Analysis of corrosion deposits
- ▶ Corrosion audits

Electrochemical

- ▶ Determination of cathodic and anodic reactions
- ▶ Redox potentials, cyclic, pulse and AC voltammetry

Physical Chemistry

- ▶ Thermodynamics of corrosion processes
- ▶ Corrosion kinetics

Materials

- ▶ Evaluation and selection of materials
- ▶ Evaluation of protective films and coatings

Scanning Electron Microscopy (SEM)

- ▶ Analysis of stress, fatigue and erosion corrosion
- ▶ Identification of pitting and other surface defects

Corrosion Inhibitors

- ▶ Adsorption and impact of corrosion inhibitors
- ▶ Testing of corrosion inhibitors

Additional Measurements

- ▶ Carbonation front determination for concrete
- ▶ Chloride ingress into concrete
- ▶ pH, conductivity, chloride and dissolved oxygen