

Corrosion Services

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



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Corrosion Analysis

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

Electrochemical Measurements

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

Physical Chemistry

- Thermodynamics of corrosion processes
- Corrosion kinetics

Materials and Coatings

- Evaluation and selection of materials
- Evaluation of protective films and coatings
- Thickness measurements
- FTIR analysis

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



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