



 Where needs take us

## Corrosion Testing Services

IMI TAMI Institute for Research & Development Ltd.

IMI TAMI  
Institute for Research & Development Ltd.  
P.O.B. 10140, Haifa Bay, Israel, 2611101  
Tel: +972-4-8469550 Fax: +972-4-8469309  
www.tami-imi.com

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## FIELDS OF ACTIVITY

- Tracking the development of corrosion in various work environments using advanced equipment and specially developed methods
- Measurement of the effect of corrosive materials over a wide range of temperature and pressure
- Experience with a wide range of building materials including recommendations for suitable materials
  - Metals and alloys
  - Metallic, ceramic and plastic coatings
  - Rubber and plastics
  - Concrete, refractories and ceramics
  - Paints and coatings
- Characterization of corrosion products and sediments
- Development of methods for chemical cleaning of industrial equipment without damaging the protective layer

## TARGET CLIENTS

- Chemical and plastic products manufacturers
- Pharmaceutical and food manufacturers
- Power station and cooling tower owners and operators
- Plant and factory constructors
- Desalination and water treatment plant manufacturers and operators
- Alternative and novel construction material manufacturers
- Manufacturers of paints for construction
- Manufacturers of concrete floors for chemical plants
- Environmental quality authorities and consultants

## TYPES OF TEST

- Corrosion testing
  - Laboratory exposure and industrial testing in the client's plant
  - Exposure to various chemical and environmental conditions
  - Electrochemical corrosion testing
  - Failure analysis
  - Preparation of metallographic specimens, including chemical and electrochemical polishing
  - Metallographic investigation of defects and micro-structure
  - Weld failure testing
- Wall thickness and hardness testing
- Salt chamber testing
- Paint and coating testing

## SUPPORTING LABORATORIES AT IMI

- Analytical Laboratory – wide range of tests (elemental analysis, FTIR, XRF, ICPMS, etc.)
- Instrumental Analytical Laboratory – GC/MS, HPLC/MS
- Physicochemical Laboratory
  - Identification of elements by scanning electron microscopy (SEM) with EDS unit
  - XRD – Elucidation of crystal structure by X-ray diffraction
  - Optical microscopy
  - Particle size and distribution measurement
  - BET powder surface area measurement
  - Microporosity measurement

## Performance of tests within the framework of ISO 9001

(according to standards issued by ASTM, SSPC, NACE, ISO etc.)

## Partial list of clients:

ICL Fertilizers (Dead Sea Works, Rotem-Amfert-Negev, Fertilizers and Chemicals), ICL Industrial Products (Bromine Compounds, Periclase), pharmaceutical, hi-tech companies and more...

