

Corrosion testing laboratory

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PARSTAT 4000 Potentiostat/Galvanostat/EIS analyzer for traditional electrochemical techniques, which have universal applications for prediction of corrosion rate of metallic materials under different simulated conditions. The major advantages are fast assessment of corrosion properties not only of metallic materials, but testing quality of final surface treatment, e.g. organic coatings, paintings, final coatings in automotive industry, study effect of inhibitors and passivation in power industry, study of

biomaterials in medicine etc.

Leibisch – corrosion chamber SKB 1000 A-TR. Ultra-fast corrosion testing in salty conditions, VDA tests for automotive industry etc.

Quartz crystal microbalance (QCM). Hyphenation with modern electrochemical methods served for development of technique for assessment of degradation properties and life-time of metallic nanoparticles under different application conditions from nanomedicine to environment.

Glovebox. Highly effective filter served for safe manipulation with unknown properties of metallic nanoparticles, pyrophoric and explosive substances under controlled atmosphere.



Vacuum induction furnace Leibold-Heraeus. Melting and preparation of pure metals and alloys, corrosion testing realized in vacuum, under protected atmosphere, static melting pot tests of oxides, metals and inorganic salts till 1500°C.