

Analytical Chemistry Services

Chemical Analyses of Solutions, Solids and Gases

Challenge

Monitoring of technical processes or the environment is routinely done by measuring only some specific parameters. These can be economically monitored by a reduced set of methods in-house.

But for specific demands or for rare investigations, e.g. in case of a failure or when process parameters indicate deviations of unknown reasons or if samples of unknown origin occur there is a need to extend the scope of investigations for clarification and quantification or to cross-check observations and findings

Solution

The Radiochemical Laboratory in Erlangen offers support and services and long time grown experience by measuring:

- Qualitative & quantitative analyses of materials
- Analyses of gaseous, liquid and solid samples
- Failure analyses
- Quality control analyses, receiving inspections
- Process monitoring
- Analysis of corrosion products
- Trace and ultra trace analyses
- Thermal analysis
- Investigations on combustion behavior
- Specification monitoring

Customer benefits

- Wide range of established analysis methods
- Analyses deliver valuable quantitative and qualitative and highly needed complementary information on the nature of samples
- Efficient quality management system, accredited laboratory
- Urgent analyses on request

Key figures

>100 accredited procedures for chemical and radiochemical analyses

ppq detection limit enables ultra-trace analyses

Your performance is our everyday commitment



Technical information

- Determination of elements in solid, liquid and gaseous samples by ICP-MS, ICP-OES, AAS, SD-OES, RFA, C-H-N-O, C-S Automat, Neutron activation analysis
- Determination of ions in liquid phase by IC
- Determination of molecules in gases and liquids by GC and Gas-MS
- Inorganic and organic compounds by UV/VIS, functional groups by FT-IR
- Water determination by Karl-Fischer-Titration
- Thermal properties (degradation/stability, melting point, reaction heat) by TG and DSC

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