

CENTRAL LABORATORY



The Central Laboratory of Treibacher Industrie AG offers a full range of extensive and customized analyses - specialized on chemical and physical parameters of inorganic substances. All steps in the analytical process are performed under control of the certified quality management system ISO 9001, for special products also under GMP-Guidelines and ISO-9100. Over 50.000 analyzed samples with more than 300.000 parameters a year indicate our absolute commitment to fulfill the customer requirements accompanied with high expertise and precision in performing the analyses.



Chemical Analysis

The Central Laboratory analyses raw, intermediate and process materials with special expertise in trace analysis of rare-earth products and refractory metals and their compounds. Various high-end techniques are used to determine the chemical composition of slags, advanced ceramics, hardmetals, ferro-alloys and other high-purity materials.

Available methods (examples):

- X-Ray Fluorescence (XRF)
- C,O,S,N by Leco
- ICP-MS / triple-quad
- ICP-OES
- Ionchromatography
- Classical wet chemistry

Physical Analysis

The Central Laboratory provides a comprehensive range of methods to determine physical data of particles, metallographic samples, surfaces or even special materials, like hydrogen-storage metals. Phase analysis by X-Ray diffraction and microanalysis using a SEM complete the analytical services in the macro- and microscopic range.

Available methods (examples):

- XRD / also at high temperature
- SEM / EDS
- BET
- PSD (laser diffraction)
- Thermal Analysis
- Infrared-Spectroscopy
- Radioactivity

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GAMMA-SPECTROMETER

The Automated Gamma Spectrometer from Baltic Scientific Instruments is intended for the detection and analysis of artificial and naturally occurring radioisotopes from a various type of samples. The spectrometric system is able to determine the qualitative composition of the radionuclides and the activity of each radionuclide. The combination of a powerful HPGe-Detector (highly pure germanium p-type) and lead shielding to suppress the natural background enable measurements with extremely low detection limits. The robotic sample changer enables the user to measure up to 100 samples without having to interact with the Gamma Spectrometer. Both liquid and solid samples can be measured without complex sample preparation.

Applications

Cs-137 in environmental samples:
The artificial radionuclide Cs-137 can be measured in different samples like mushrooms or soil with a very low detection limit.

NORM (Naturally Occurring Radioactive Material):
Analysis of the naturally occurring radionuclides in Rare Earth-materials, Zirconium-oxides, oil, building materials, carbides and much more.

Radium, thorium and uranium in waste:
In building rubble or bulky waste old watches, uranium glass, ceramics with uranium tile, gas mantle, radioactive luminous color and much more can be found.



Implants:
For medical applications, implants must have a very low level of radioactivity, which can only be achieved with modern measuring systems.



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