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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TRIPLE-QUADRUPOL-ICP MS

The 2nd generation of the Agilent 8900 ICP-QQQ enables accurate, interference-free analysis of trace elements. The four reaction gases that are most commonly used with the Agilent 8900 ICP-QQQ are O_2, NH_3 (used as a mixture of 10% NH_3 in He), He and H_2. With the choice of gas depending on the individual interference that needs to be addressed. In addition, it has MS/MS mode for controlled and consistent interference removal in reaction mode. This capability makes it a powerful and flexible multi-element analyzer.

Applications

Raw materials (rare earth oxides):
Rare earth elements are measured in the trace range without interference.

Semiconductors:
ICP-QQQ is used to monitor lower levels of ultratrace contaminants in raw materials.

Environmental samples:
Accurate measurements of impurities at trace levels are possible in environmental samples. The methods of the Agilent ICP-QQQ offer the lowest detection limits and highest reliability of results.

Feed additives:
The ICP-QQQ efficiently eliminates interference from both molecular ions and doubly charged ions, so heavy metals and other contaminations can be measured in all feed additive samples at lower concentrations and higher accuracy.

CONTACT US

TREIBACHER INDUSTRIE AG
Auer-von-Welsbach-Strasse 1
9330 Althofen, Austria
phone +43 (0) 4262 505-456
armin.flatschacher@treibacher.com

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REACT-EU ALS TEIL DER REAKTION DER UNION AUF DIE COVID-19-PANDEMIE FINANZIERT.

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