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With the technology modules of analytics, it is possible to select and combine the analytical methods suitable for your problem and to carry out process-accompanying analyses for optimization. A broad spectrum of modern methods and techniques as well as self-developed methods are available for this purpose.

**ADVANTAGES**
- Selection of analysis methods suitable for your questions and material systems
- Individual pricing and full transparency of analysis packages
- Inclusion during the analysis process, e.g. with live analyses on site and discussion of findings
- Evaluation and assessment of results as a report with Fraunhofer quality standard
- Possibility for further consulting and optimization of processes, e.g. in material development

**Your requirement / Our service**

**ESTABLISHMENT OF NEW PROCESSES**
- Characterize challenging or new materials along the development process
- Accompanying process control during the production and optimization of new material systems

**OPTIMIZATION EXISTING PROCESSES**
- Verification of production processes
- Validation of established processes
- Accompanying process control along the entire life cycle from development to recycling of your material / product

**CHARACTERIZE MATERIAL FLOWS**
- Analysis of the composition of your material flows
- Reduction of disposal costs, through the analysis of value and environmentally relevant substances, from development to re-use and recycling
- Determination of material properties

**INORGANIC AND ORGANIC ANALYTICS**
- Qualitative and quantitative elemental analyses (ICP-OES, ICP-MS, RFA, combustion analysis)
- Chromatography - separation and identification of organic compounds (GC, HPLC, HPIR)
- Atomic and molecular spectroscopy (FT-IR, µ-Raman, µ-RFA)

**STRUCTURES ELUCIDATION, SURFACES AND LAYER ANALYSIS**
- Light microscopy (LM)
- Scanning electron microscopy (SEM/EDS)
- Atomic sonde tomography (3D-APT)
- Preparation and investigation of surfaces (FIB)
- Structure analyses of amorphous and crystalline phases (XRD)

**MATERIAL PROPERTIES**
- Magnetic properties (Kerr, Permagraph)
- Thermal analysis (TG-DSC-MS, HAST, thermo-optical analysis)
- Density, porosity
- Water content, flash point, viscosity