

PHYSICAL ELECTRONICS GMBH



Your contact for Surface Analysis
and Analytical Services in South Bavaria

Analytics & Consulting | Munich

Surface | Interfaces | Functionalization

The central aim is always to generate innovative solutions for specific customers' requirements. The support of our customers in the analysis of

- Layers
- Materials
- Surfaces
- Defects

for the R&D, reverse engineering, process and quality control. Our unique features of our laboratory enable us to overcome these challenges.



Your Profit

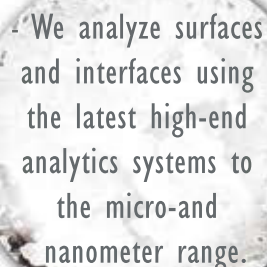
- Unique combination of measurement methods: XPS, Auger and TOF-SIMS
- Years of experience
- Direct contact with equipment manufacturer

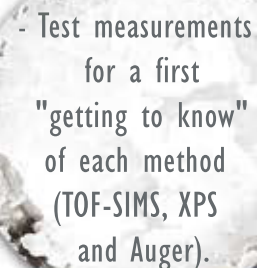
Some Examples of Performed Analysis

- Qualitative and quantitative determination of surface composition
- Detection of trace elements
- Identification of additives
- Micro-domain analysis, elemental mapping, depth profile analysis
- Surface characterization of products of the paper industry
- Wetting disorders and crater formation in sprays
- Local discoloration in pharmaceutical products, packaging materials, polymers, paper, photoresists
- Delamination of metal / polymer composites
- Contamination and foreign particles on wafers
- Wear and tribological surface changes

Individual supervision with advanced analysis methods:

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- We advise on issues as they typically occur in the area of production, quality assurance and R&D.

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- We analyze surfaces and interfaces using the latest high-end analytics systems to the micro-and nanometer range.

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- Test measurements for a first "getting to know" of each method (TOF-SIMS, XPS and Auger).