

## Balazs NanoAnalysis



### A Global Leader in Contamination Reduction and Problem Solving

**Balazs NanoAnalysis** was founded in 1975 and has been the global leader in contamination reduction for over 30 years. We are a contamination problem solving company offering the most complete line of clean manufacturing solutions.

We serve many industries including:

- Semiconductor
- Photovoltaic / Solar
- Flat panel display
- Medical, pharmaceutical and biomedical
- Hard disk drive



Our knowledge extends to high technology processes, chemicals, water, air, gases, wafers, cleanroom environment, process tool cleanliness and clean manufacturing. We welcome you to be our partner in success.

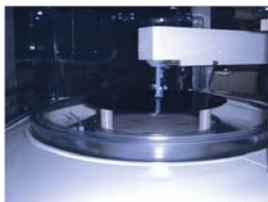
As a division of Air Liquide Electronics U.S. LP (ALEUS) we have a deep understanding of our customers' businesses and the ability to integrate our high technology analytical services to provide value-added applications and services to ALEUS' customers in coordination with other areas of the company:

- Total gas and chemical management
- Electronic specialty gases
- Carrier gases
- ALOHA™ Advanced Precursors
- Delivery systems
- Gas cabinets
- Chemical dispensers



## Analytical Services and Capabilities

Our expert scientists and laboratory staff are our greatest assets. They are very knowledgeable of industry needs and concerns and able to design test plans and develop custom procedures, as appropriate, to meet our customer's leading edge requirements. Our laboratories include:



*VPD analysis on wafers*



*ICP-MS in Class 10 laboratory for water and chemical analyses*



*Total analytical solution for our customers*

### Advanced Materials Laboratory

- CIGS, GST, high- and low-k films, OLED and TFT-LCD, specialized coatings, solar panels, hard drive, III-V and II-VI materials

### Wafer Laboratory

- Prime, SOI, thermal oxide wafers; processed wafers – CMP, post-clean, ion implantation and thermal annealing, automated VPD analysis

### Organic Laboratory

- Material outgassing, lubricants, residues, polymers

### Water Laboratory

- Ultrapure, source and recycle water, UPW extractable testing

### Chemical Laboratory

- Ultrapure chemicals, precursors, acid extraction

### Gas Laboratory

- CDA, N<sub>2</sub>, ESG impurity testing, summa-canister and reactive gas sampling for organics and metals

### Airborne Molecular and Surface Molecular Laboratory

- Cleanroom environmental baselining and troubleshooting
- Laser optics cleanliness and lithography tool qualification

### Tool Parts Cleanliness Laboratory

- Tool component and assembly cleanliness testing
- Vendor material qualification and precision cleaning qualification

### RoHS Laboratory

- RoHS testing for restrictive substances for screening and complete analyses of materials, components and assemblies

### Research and Development Group

- Customized analytical protocol and advanced methodology development

## Quality Control

Balazs NanoAnalysis is ISO 9002 and ISO 17025 accredited. These certifications are representative of our dedication to absolute quality control and to providing reliable analytical data. Our ISO Quality Program is well respected by auditors and our customers and reflects the dedication of our Internal Quality teams.

## Confidentiality

We treat our client, client data and their proprietary information with the greatest respect. As an independent laboratory we understand the need for confidentiality.

**Balazs NanoAnalysis** is headquartered in Fremont, CA USA with additional facilities in Dallas, TX, and Corbeil, France.



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