



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

BALAZS ANALYTICAL SERVICES

Dallas, TX

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005*).



Presented this 25th day of June 2008.



President

For the Accreditation Council

Certificate Number 2151.01

Valid to June 30, 2010

For the tests or types of tests to which this accreditation applies,
please refer to the laboratory's Chemical Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

BALAZS ANALYTICAL SERVICES
AIR LIQUIDE ELECTRONICS US LP
13546 North Central Expressway
Dallas, TX 75243
Steven Jones Phone: 972 995 4260

CHEMICAL

Valid To: June 30, 2010

Certificate Number: 2151.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on air, chemicals, ultrapure water, and wafers:

<u>Test</u>	<u>Test Method(s)</u>
<u>Bacterial Examination of Water</u>	
Bacterial Analysis via Chemunex Scan RDI/ Chem Scan	CSL-22369-SOP
Cultured Bacteria in Water	CSL-22119-SOP
Determination of Optical Particle Counts/Distribution In Chemicals UPW, and Slurries	CSL-22162-SOP CSL-22163-SOP CSL-22164-SOP
<u>Determination of Color</u>	
Color Determination	CSL-22121-SOP
<u>Determination of pH</u>	
pH Meter Functional Verification and Operation	CSL-22113-SOP
<u>Determination of Trace Anions & Cations</u>	
Acid & Base Anhydrides in Air	CSL-22272-SOP
Determination of Trace Anions & Cations in Chemicals by Ion Chromatography (IC)	CSL-22136-SOP CSL-22137-SOP CSL-22138-SOP
Determination of Trace Anions & Cations in UPW by Ion Chromatography (IC)	CSL-22136-SOP CSL-22137-SOP CSL-22138-SOP
IC Extractable Compounds	CSL-22144-SOP

<u>Test</u>	<u>Test Method(s)</u>
<u>Determination of Trace Elements in Chemicals</u>	
Determination of Trace Elements in Chemicals by ICP-OES	CSL-22104-SOP CSL-22149-SOP
Determination of Trace Elements in Chemicals by ICP-MS with Direct Dilution & Analysis	CSL-22103-SOP CSL-22105-SOP
Determination of Trace Elements in Chemicals by ICP-MS following Evaporation (GDP)	CSL-22103-SOP CSL-22105-SOP
<u>Determination of Trace Elements in Ultra Pure Water (UPW)</u>	
Measurement of Trace Elements in UPW by ICP-MS	CSL-22103-SOP CSL-22105-SOP
<u>Determination of Trace Elements on Wafers by VPD ICP-MS or GFAA</u>	
Determination of Trace Elements on Silicon Wafer Surface by VPD	CSL-22215-SOP
<u>Solvent Assays by GC or GC-MS</u>	
Area % Assay for Solvents or Mixtures by Gas Chromatography	CSL-22106-SOP
<u>Percent Solids/Moisture Determination</u>	
Automated Analysis for % Solids Analysis	CSL-22143-SOP
Moisture Analysis in Solvents	CSL-22111-SOP
Percent Solids in Cabot 600Y-75 Slurry	CSL-22227-SOP
Percent Solids Using Muffle Furnace	CSL-22159-SOP
Residue After Evaporation	CSL-22117-SOP
<u>Photostrip Metals Analysis</u>	
Determination of Trace Metals in Photostrip by GFAA and ICP-MS	CSL-22306-SOP
<u>Plating Bath Analysis</u>	
CVS Organic Analysis of Enthone CUBATH SC-Plating Solutions on ECI Technology QL10	CSL-22171-SOP
CVS Organic Analysis of Viaform HA Copper-Plating Solutions on ECI Technology QL10	CSL-22172-SOP
CVS Organic Analysis of Viaform LA Copper-Plating Solutions on ECI Technology QL10	CSL-22177-SOP
Primary Organic Additive Analysis in Lead-Tin Plating Solutions via CVS QP4000 or QL10 – Single Position	CSL-22167-SOP

<u>Test</u>	<u>Test Method(s)</u>
<u>Wet Chemistry</u>	
Analysis of Acidity in Solvents	CSL-22270-SOP
Assays by Automated Titration	CSL-22107-SOP
Assays by Manual Titration	CSL-22152-SOP CSL-22153-SOP
Determination of Hydrogen Peroxide and/or Persulfuric Acid (H ₂ SO ₅) in Caro's Acid	CSL-22217-SOP
Determination of Surface Tension	CSL-22097-SOP
Determination of Specific Gravity and Density	CSL-22148-SOP
Determination of Total Oxidizable Carbon (TOC) in Chemicals	CSL-22146-SOP
Determination of Total Oxidizable Carbon (TOC) in UPW	CSL-22146-SOP
Determination of Viscosity	CSL-22157-SOP
Perform Analysis of Free Acid in Hydrogen Peroxide	CSL-22271-SOP
Titration of SCl Solution	CSL-22116-SOP