

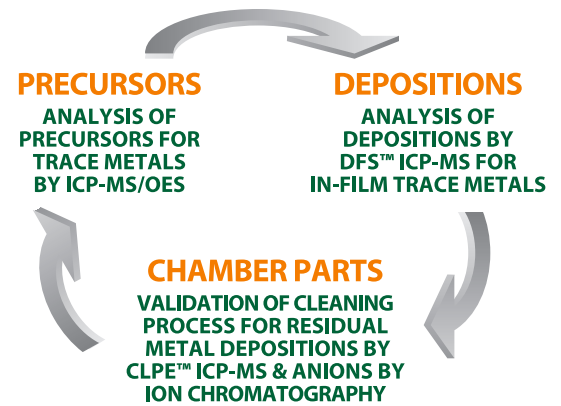


## TOTAL ALD SOLUTIONS

ALD has emerged as a powerful and preferred tool for many industrial and research applications. It is used in the Microelectronics and Nano electronics industries including Photovoltaics / Solar and LED's. Precursor suppliers, OEMs, Fabs and cleaning companies have come to rely on ChemTrace® techniques for materials and process characterization.

### PRECURSORS ANALYZED:

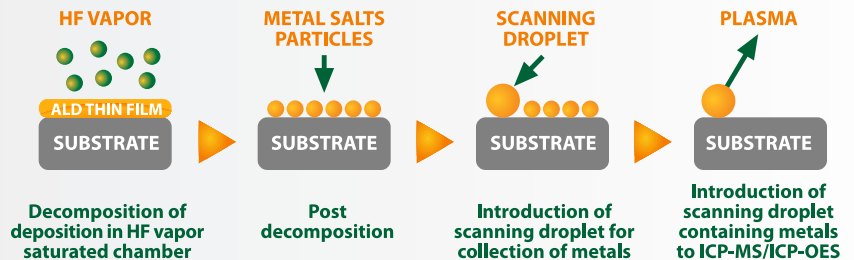
TDMAS	TBTDET	TMOS
BDEAS	TBTEMAT	TMP
CCTBA	TCS	TMPB
DIPAS	TDMAT	TMPI
EDNOMO	TDMA-HF	TMPO
HCDS	TDMAZC	ZrCl <sub>4</sub>
MDNOW	TEB	DMAS
OCTS	TEMAZ	BDEAS
OMCTS	TEOS	CCTBA
PDMAT	TEPO	CPCOCO <sub>2</sub>
TAETO	TiCl <sub>4</sub>	DIPAS
TBTDEAN	TMA	



### DFS ICP-MS/OES ANALYSIS

Advanced Wet Chemistry Technique allowing etching of full thickness of deposition across a large surface area.

- Bevel edge analysis
- Fully quantitative
- High sensitivities
- Major metal composition
- 40+ element survey



### COMPREHENSIVE NON-DESTRUCTIVE PARTS ANALYSIS

#### VERIFICATION

Trace Metals Analysis  
Particle Counts  
Anions and Cations  
Volatile Organics  
Elemental Analysis of Particle

#### ANALYTICAL TECHNIQUES

Controlled Liquid Phase Extraction™ ICP-MS  
UPW extraction Liquid Particle Counter  
UPW Extraction Ion Chromatography  
ATD GC-MS  
SEM-EDX

### COMPREHENSIVE PART ANALYSIS SUPPORT & SERVICES

#### NEW AND USED PARTS

