

Parylene Coating System – SAT (Acceptance Procedure)

1. General Admission

Testing	Description	Test Method	Admission Criteria
Documentation	Control of CE and technical documents	Document review	Complete
Installation	System setup check	Observation	Operational
Education	Operator training	Observation	Completed

2. Vacuum System

Testing	Description	Test Method	Admission Criteria
Vacuum level	Final pressure measurement	Gauge measurement	≤ 1 Pa
Pump performance	Pump-down testi	Time measurement	Stable
Pressure measurement	Digital gauge verification	Comparison	Correct reading

3. Cold Trap

Testing	Description	Test Method	Admission Criteria
Cooling	Cold trap temperature	Measurement	$\leq -90^{\circ}\text{C}$
Chiller	Cooling system operation	Observation	Stable
Monomer tutma	Post-process control	Observation	Contamination of yokes

4. Dimer Evaporation and Pyrolysis

Testing	Description	Test Method	Admission Criteria
Evaporation	Dimer heating	Measurement	150–170°C
Pyrolysis	Monomer breakage	Measurement	650–750°C
Process continuity	Working along the coating	Observation	Non-stop

5. Coating Performance

Testing	Description	Test Method	Admission Criteria
Thickness range	Coating thickness	Measurement	50 nm – 50 µm
Uniformity	On a 4" wafer	Profilometer	±10%
Conformal coating	3D building cladding	Mikroskop	Continuous coating
Repeatability	Same recipe 3 times	Measurement	Similar result

6. Specimen Rotation

Testing	Description	Test Method	Admission Criteria
Rotation	Sample carrier rotation	Observation	Stable
Uniformity contribution	Post-coating control	Measurement	Homogeneity

7. Software and Automation

Testing	Description	Test Method	Admission Criteria
Recipe	Create a recipe	Testing	Works
Data logging	Data logging	Control	Complete
Chart	Parameter tracking	Observation	Viewable

Export	CSV/Excel export	Testing	Successful
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8. Security

Testing	Description	Test Method	Admission Criteria
EMO	Acil stop	Testing	System stops
Kapı interlock	Door opening	Testing	System stops
Over-temp	Over-temperature protection	Simulation	System stops
Overpressure	Pressure protection	Simulation	Safe

9. Data Logging

Testing	Description	Test Method	Admission Criteria
Pressure log	Pressure records	Control	Available
Temperature log	Temperature records	Control	Available
Alarm log	Error logs	Control	Available

10. Delivery Control

Testing	Description	Test Method	Admission Criteria
Accessories	All components	Control	Complete
Consumables	O-ring etc.	Control	There is
Document	Manual vb.	Control	There is

11. Final Kabul

All tests must be completed successfully, if there are deficiencies, a punch-list must be prepared and the system must be delivered in working condition.