Clean Gas Delivery

Semiconductors are becoming smaller and more complex through the use of novel materials and chemicals. Because of this, fabricators must pay closer attention to the purity of process gases and the ambient environment of the manufacturing floor. This demand for purity influences the gas supply chain, placing greater emphasis on processes and technologies that ensure clean gas delivery.

PREVENTING CONTAMINATION

Even trace contaminants in the gas supply can measurably impact chip performance and wafer yield. Types of contaminants include:



ENSURING GAS PURITY AT SUPPLIERS



Purified gases can pick up contaminants during storage and transfer

ENSURING GAS PURITY AT FABRICATORS

Airborne Molecular Contamination (AMC)

In a world of pervasive defectivity, fabs must be increasingly wary of environmental contamination from any source, even inadvertent off-gassing from workers in cleanroom suits.



- Additional point-of-use filters and purifiers are used within the tool and ambient environment to deliver the final purity
- Gas filters and purifiers use broad area media and membranes to remove the targeted contaminants that threaten each process



REIMAGINE PURITY IN COLLABORATION WITH ENTEGRIS

Entegris is a trusted partner providing mission-critical solutions for ensuring gas purity throughout the semiconductor ecosystem, from the supply chain to cleanroom environments on the fabrication floor.

Learn More

www.entegris.com/clean-gas-delivery

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