

Purafil Keeps Semiconductor Operations Running Smoothly

SHANGHAI, CHINA

The process department of a microelectronics company located in Shanghai, China became alarmed as they saw their production efficiency waning. The company, who produces 55 nm, 40 nm and 28 nm process technologies and is capable of producing up to 75,000 wafers per month, suspected that airborne molecular contamination (AMC) from outside air and chemicals were diminishing their yield. Purafil was able to confirm their suspicion through corrosion coupon testing and were tapped to recommend a solution that solved their yield problems.

After testing to see what chemicals were present in the fabrication environment, Purafil's solution included tray filters containing Puracarb media for the neutralization of chlorine, hydrogen sulfide and sulfur dioxide as well as Purakol for broad-spectrum pollutant removal in make-up air units. Additionally, combination chemical and particulate Purafil filters were deployed in filter fan units to eliminate VOCs, acid and base contaminants.

The effects of implementing Purafil's solution was felt immediately as product yield rebounded right away. Our patented products ensure the AMC concentration levels stay below semiconductor fabrication specs to keep product yield high. Our partnership with this Chinese semiconductor continues to be productive as we regularly replace filtration media and provide AMC sampling and testing data to ensure their processes remain in top shape. Production downtime and product losses due to corrosion are extremely costly but Purafil delivers solutions that keep your operation running smoothly.

