

MEGAcel® II Proves Exceptional Durability with Significant Savings

CASE STUDY - MICROELECTRONICS

Customer Profile

- Located in Cupertino, California
- Global leader in data storage solutions
- Created first 13,34 cm hard drive for the PC



The Filtration Situation

A global leader in data storage solutions located in California needed to meet specific contractual obligations for a new microelectronics manufacturing facility to be operational by the end of 2015. This directive drove the company to find durable filters for the new facility that would consistently perform well in efficiency testing. These filters also needed to effectively eliminate boron offgassing, which damages microelectronic circuit boards leading to intermittent and hard failures.

Because there were extreme time constraints for filter installation in this new facility, this company required that the total filter installation process sustain a damage rate of less than 8 to 10%. A damage rate higher than 10% would mean that the contractually mandated deadline for the facility to be operational by the end of 2015 would not be met.

The AAF Solution

In other facilities, this company had been using a filter that sustained a damage rate ranging from 8 to 10%. Due to this disappointing damage rate, additional filters always had to be ordered to compensate.

AAF demonstrated the durability of our MEGAcel II filter, showing that this filter has a superior resistance to damage. The ePTFE Filtration Technology media in this filter met the airflow and resistance values required, demonstrating high



efficiency and low energy consumption. This ePTFE media in the MEGAcel II filter performs at the highest level in critical areas with a near zero offgassing of chemical components.

The Results

2.900 MEGAcel II filters were shipped to California and installed in the company's new microelectronics manufacturing facility. With a near perfect 100% first pass rate, only 3 filters did not pass in-place leak testing. This is a remarkable damage rate, compared to the norm of 8 to 10% damage occurrence with fragile microglass media filters. In this case, that would have meant that 232 – 290 filters would have needed to be replaced. This would have created a significant setback to the operational deadline.

The durability of the MEGAcel II ePTFE media resulted in the installation of these filters being completed on time in the new facility, as well as considerable maintenance cost savings. With this installation of MEGAcel II filters, this data storage solutions company received a substantial return on investment, saving both time and money.



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