



Filtration in the Micro Electronics Industry

Filtration is a crucial step in many aspects of micro-electronics manufacturing. Proper filtration allows for a high level of purity in chemical and water systems, leading to long fluid life, minimized down-time, and the highest possible product quality. For over 20 years, Global Filter has been designing and manufacturing high purity filters for water and chemical systems in the microelectronics industry. Our experience enables us to help you optimize your production and finishing processes, which adds to your bottom line.



The Role of Filters in Semiconductor Manufacturing

Global Filter's high purity filtration products are used in three key areas of the microelectronics industry:

- **Water Processing:** Ultrapure Water is primarily used for rinsing silicon wafers after polishing, with the intent of removing any contaminant that may negatively impact product quality. Pure water is also used to cool manufacturing equipment that could be damaged by excessive heat.
- **High Purity Chemical Filtration:** Various chemicals are used throughout the manufacturing process to ensure product cleanliness. Over time, these fluids become contaminated, which can shorten their life spans and reduce performance.
- **Wafer Polishing:** All silicon wafers must be polished to a very high level to ensure a high-quality circuit is achieved. The smallest undesired particulate can severely & negatively impact wafer surface quality, so slurries must be filtered to an extremely exacting standard.

Media Options for Every Application

Global Filter offers a large selection of high-quality filter medias to address any challenge within the microelectronics industry. Assembled using the latest technology in high-integrity, thermal bonding equipment, we're able to customize and optimize a solution for any application, quickly and efficiently.



Filters When You Need Them Most

Global Filter's full line of high purity filtration equipment is available faster than any other manufacturer in the industry. With standard lead times measured in days on consumables, and hundreds of vessels in stock ready to ship, Global Filter has you covered.

Industry Best Net Value

Global Filter designs innovative and efficient filtration solutions. Our high-quality filters combined with our technical expertise allow us to offer you solutions that **take the guess work out of your process**. Our solutions **optimize the service life of filters**, reducing waste to positively impact the environment, while increasing your productivity. Consistent, cost-effective and high-quality filters allow you to achieve a consistent, high-quality product while adding to your bottom line.

Our Filtration Solutions Are:



Safer

Our products meet US and EU standards for purity and safe use with food and beverages



Healthier

We develop products that improve the quality of life for humans and animals



More Productive

Our solutions allow you to produce more product at a lower cost, improving your bottom line



Advantages To Working With Us:

- Access to an extensive network of filtration professionals from all over the world who have experience with thousands of unique processes and applications
- Manufacturing facilities in North America, Europe and Japan
- Products designed to maximize your productivity, product quality and bottom line
- Ability to quickly adjust to your changing needs
- Technical support from initial conversations to implementation and beyond
- Shortest lead times and highest value in the industry

