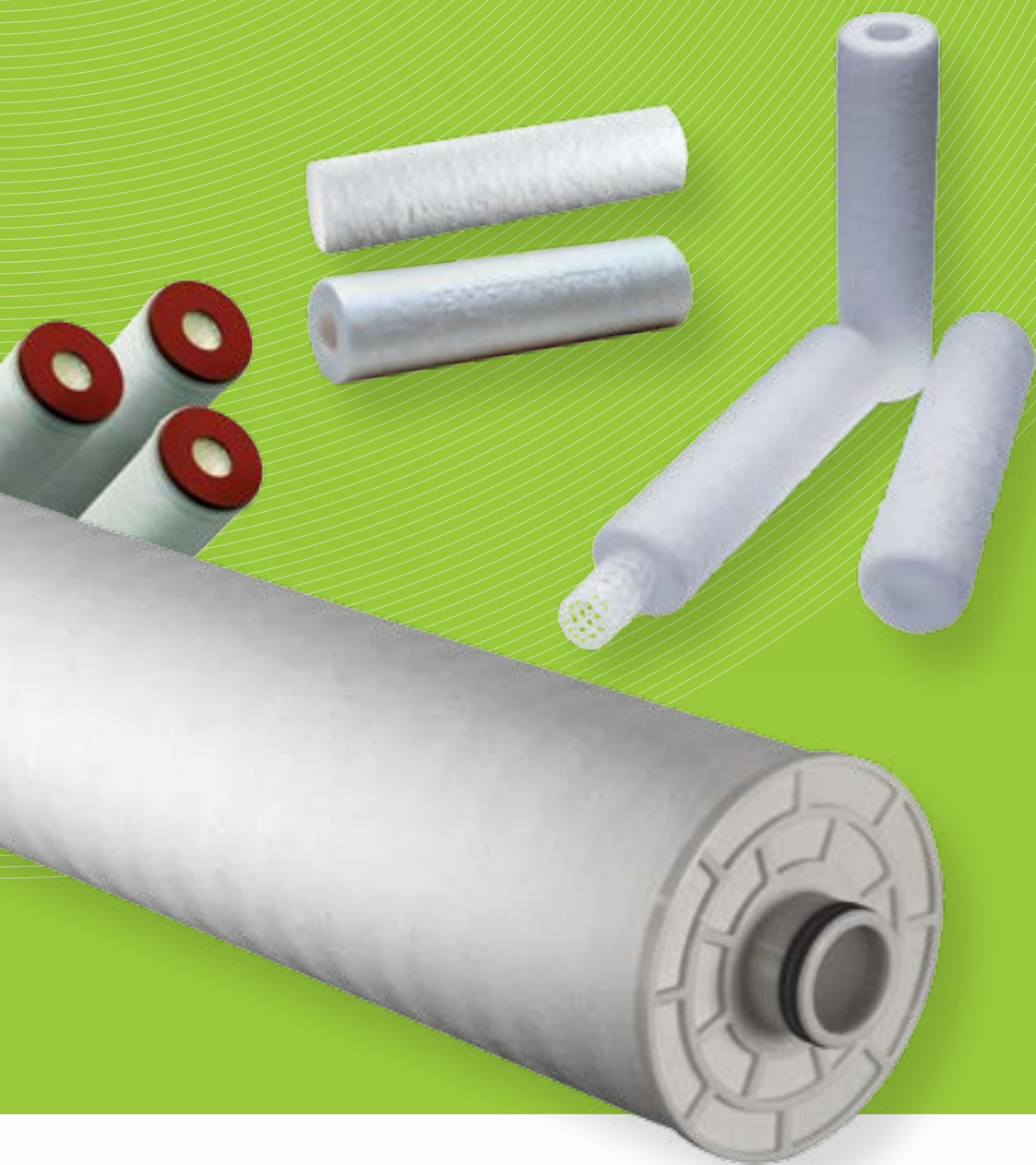


SUEZ's depth filters



ready for the resource revolution



suez

advanced depth filter manufacturing technology

SUEZ has a long-term commitment to developing manufacturing technology that advances the performance of depth filters. Beginning with the Hytrex filter technology developed in the 1980s, and more recently with the introduction of the Z.Plex* filter technology, research and development around improved filtration technology has been a priority. SUEZ has improved existing designs and enabled a whole new series of depth filters designed to meet the challenges of today’s applications. At our Minnetonka, Minnesota Filtration Center of Excellence we are working to develop the next generation of depth filters to meet the ever increasing demands of industry.

Hytrex* filter manufacturing technology

Hytrex, the original polypropylene depth filter, provides purity and reliability to ensure consistent results. Both Hytrex and Z.Plex are produced using a patented, continuous process that provides consistent product performance. Lot-to-lot, order-to-order, strict quality control assures repeatability and high quality products. In Hytrex filters, thermally bonded micro fibers create a strong, secure cartridge matrix that traps and holds particles throughout its depth. Its pure polypropylene construction assures fast rinse-up in high purity applications, and it carries the NSF 42 certification and is FDA compliant. Hytrex is ideally suited for applications where purity is the primary consideration, such as microelectronics and food and beverage. Hytrex depth filters are also one of the strongest filters available, which makes them appropriate for the most demanding industrial filtration. Hytrex is the choice where greater efficiency such as fluid clarification is needed, and severe conditions such as high flow rates

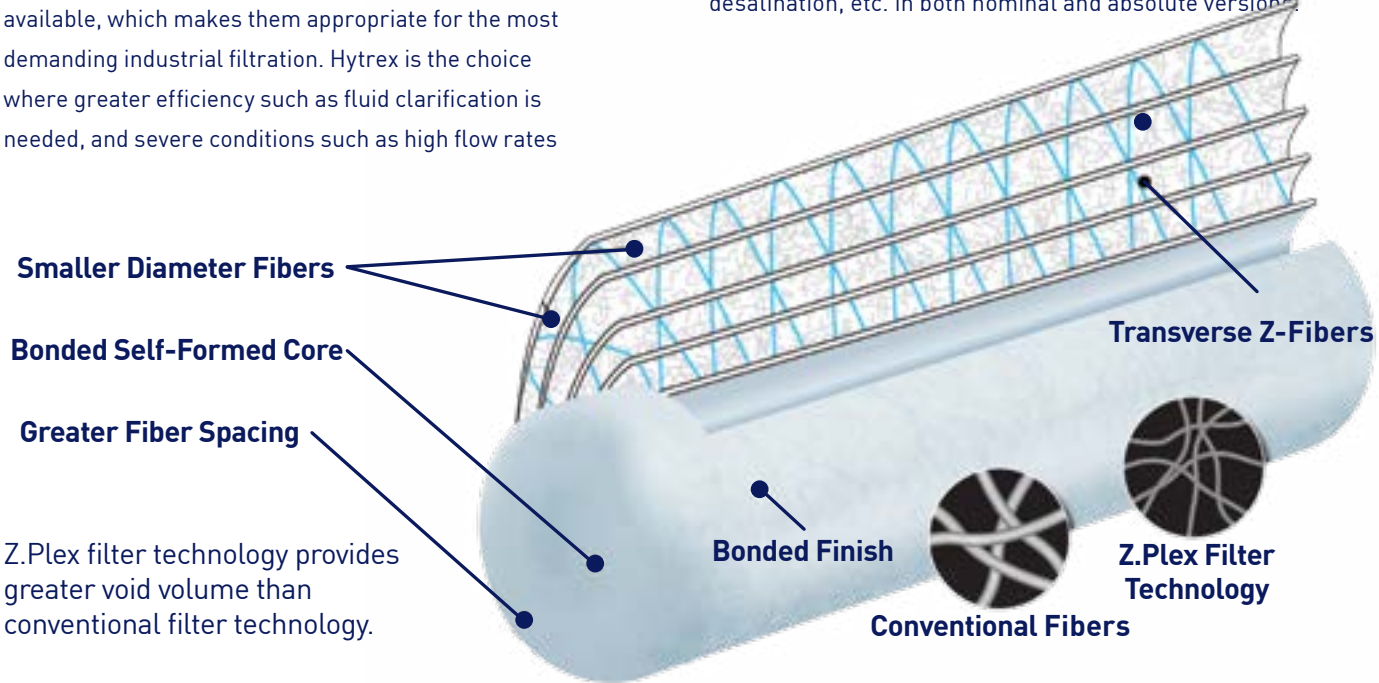
and pressure drops will be encountered. Filtration applications in chemical process, oil and gas, and produced water are typical of Hytrex filter usage.

Z.Plex filter manufacturing technology

In 2003, SUEZ introduced a new, patented filter manufacturing technology known as Z.Plex. The technology uses finer fibers than conventional melt blown fibers and creates a unique filter structure using polypropylene fibers in a bi-directional fiber arrangement. The transverse fibers and filter layer “lofting” increase the available space to collect contaminants, which results in a better-performing filter.

Z.Plex technology uses transverse “Z” fibers to provide rigid strength from the core to the outer layer without the presence of a conventional support core. The gradient density from the outer to inner core preserves the original Hytrex melt blown technology concept of progressively finer layers where the previous layer acts as a pre-filter to the next layer. This design spreads the dirt removal work out over the entire depth of the media. The unique three-dimensional structure of Z.Plex filter matrix helps deliver benefits to users in three key areas: dirt holding capacity, filter life, and pressure drop.

The advanced design capability of the Z.Plex Technology has allowed the development of application grade filters, created specifically for the defined purpose. Today, products are available for applications in well injection, reverse osmosis pretreatment, seawater desalination, etc. in both nominal and absolute versions.



high efficiency, high performance, long life filter

SUEZ continually develops technology to improve performance. Laboratory testing and field experience show SUEZ depth filters outperform low cost imports on several measurements.

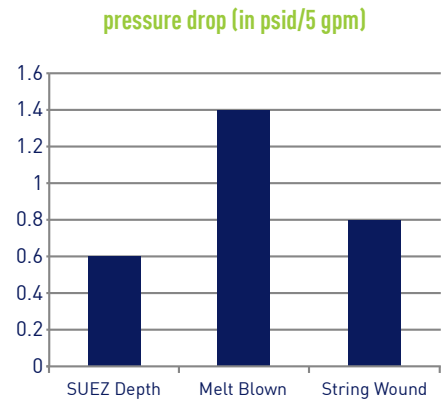
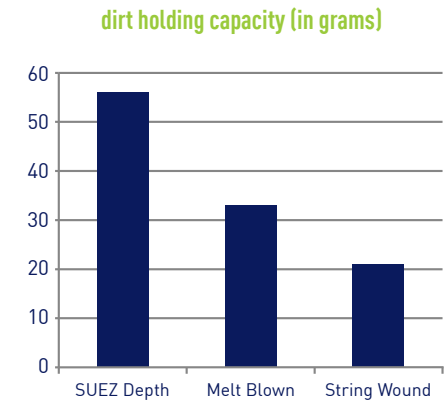
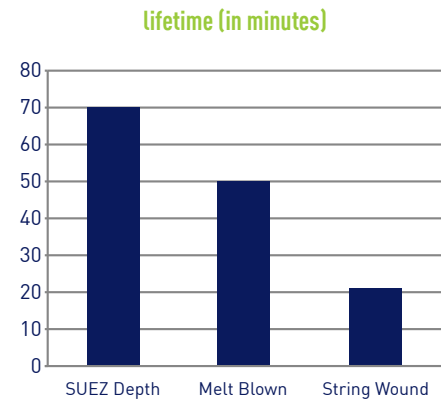
Graded Density – Performance is built into SUEZ’s depth filter design. SUEZ’s graded density enables the entire cartridge to hold contaminants. Competitor filters without graded density completely plug while leaving the majority of the media unused.

Lifetime and Dirt Holding Capacity – SUEZ filters are engineered to maximize dirt-holding capacity and minimize pressure drop at each micron rating. When compared to SUEZ’s depth filter, the competitor’s products with similar efficiency has uniform density throughout the filter, which results in poor life and capacity. SUEZ depth filters employ technology that can change filter density to increase service life.

Pressure Drop – When compared to SUEZ’s depth filter, the charts (located at the right) show the inferior performance of the competitor’s product. In this test, the competitor’s product was labeled as a one micron rated filter and was compared to the SUEZ 20 micron rated filter.



Side by side comparison of used depth filters. The SUEZ filter shows dirt capture through the entire cartridge whereas the competition’s filter gets plugged, leaving the majority of the cartridge unused.



All data based upon 10" filters.

high purity regulatory compliance

SUEZ depth filters are made in the USA. We partner with the world's best polypropylene producers to ensure a consistent supply of raw material that allows for FDA compliance and NSF certification. It also keeps us on the cutting edge of polymer advances.

SUEZ's commitment to filtration is supported by our dedicated Research and Development staff and world-class laboratories. This commitment provides leading technology that results in superior performance. Rigorous quality assurance has been integral to our process with ISO registration for more than 15 years.

When you use SUEZ depth filters, you reduce fouling, increase filter life and decrease the costs of your system performance. If you would like more information about how SUEZ filters can provide you with high performance and high purity, contact your SUEZ account representative or visit www.suezwatertechnologies.com.



SUEZ depth filter portfolio		
Hytrex Technology Filters	Z.Plex Technology Filters	Resin Bonded
Hytrex	ROSave.Z	Hypure
Purtrex	WellPro.Z	
Selex	Absolute.Z	
RX	SWRO.Z	
Aquatrex LD	ZCore	
	Muni.Z	
	High Flow Z	

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