

temizoda  
marketi.COM

# FILTERS

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# Who We Are?

## Our Aim

### Who We Are?

Temizoda Marketi started its business life in 1995 with İNŞEL Yapı ve Teknik Donatım Sistemleri Ltd. Sti. Specializing in cleanroom consultancy, design, implementation, documentation, and training, İNŞEL aims to meet the needs of personnel working in cleanrooms, sterile areas and critically controlled areas when it aims to provide turnkey services in the projects it implements.

İNŞEL, which has started to supply consumables in Cleanrooms, sterile areas and critically controlled areas through its representatives since 2004, has separated this department from its body in time in order not to cause confusion for our valued customers and to provide better service led to creation of Temizoda Marketi Laboratuvar Ürünleri A.Ş.

Today, as Temizoda Marketi, we are always with you, our valued customers, from product selection to training with our professional and experienced staff, while following the technology closely to provide you with the best service in the most accurate way.

### Our Aim

As Temizoda Marketi, we know our valued customers from the very beginning, from the installation of your hygienic area and Cleanrooms, and we know your needs. We are aware of how important it is to use the right material in the right place, and we are always at your side to supply you with the best quality and right products with the most appropriate solutions. We supply the highest technology products for you, and we are with you wherever you need, from training to after-sales user Support.

We know that choosing the right product is never the cheapest or the most expensive, and at this point, we help you with the most optimum benefit options...

# Why Temizoda Marketi?

*We know you; we know your needs and we are here to help you in the best way*

As Temizoda Marketi, we try to get to know you first and learn about your business, processes, and needs and offer you the most suitable solutions.

As Temizoda Marketi, we are always happy and proud to assist you with our trained and experienced staff.

We are working to give you the best and highest quality service with our experienced staff dedicated to each department.



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Choosing the right product is one of the most important issues in cleanrooms and critically controlled areas.

As Temizoda Marketi, we choose the most accurate and best quality products for your business in line with your demands and goals and recommend them by making them economical.

The materials used in critically controlled areas are as special and important as the areas you work in.

We know that the most suitable product for you is not always the most expensive or the cheapest, but it should be the best quality. In order to offer you the optimum solution, as Temizoda Marketi, we offer you the products you need by diversifying them with alternatives from different brands.

As Temizoda Marketi, we know the importance of the documentation of all materials you use in critically controlled areas, and we provide all documents, certificates, analysis reports, and all necessary documentation for you, that are necessary, during the installation phase, application and validation.

Temizoda Marketi does not only approach you as a product supplier. At the same time, it stands behind the products it sells and does not hesitate to take all necessary actions to eliminate it when you have any problems.

It does not sell products without the full support of the companies it represents. When there is a problem about the products, Temizoda Marketi approaches the issue as if using it himself and ensures that it is resolved as soon as possible. Thus, you will get maximum efficiency from the product you have bought.

As Temizoda Marketi, we would like to help you with all the products you need with our wide product range. Even if the product you need does not appear in our catalog, we try to find the product you are looking for with our partners abroad. Thus, we provide you with one-stop service as sole responsibility.

Temizoda Marketi does not only supply you with products, but also provides training, which is one of the greatest necessities of our time. No matter how accurate the product is in critically controlled areas, incorrect or unconscious use can cause unwanted problems. Upon request, it provides the necessary training for the products you have purchased, either by itself or by the manufacturer.

# Our Representatives

We are working with well-established companies that have proven their quality all over the world in auxiliary products used in clean rooms, sterile areas, laboratories and other critically controlled areas, to provide you with the best and right product.

- Cleanroom Consumables (Wipes, Gloves, Swabs, Mats,...)



**IAB** Reinraum-Produkte GmbH  
<http://www.iab-reinraumprodukte.de/>



**Protect2Clean**  
[www.protect2clean.com/](http://www.protect2clean.com/)



**Pfennig** Reinigungstechnik GmbH  
[www.pfennig-reinigungstechnik.com](http://www.pfennig-reinigungstechnik.com)



**ABEBA** Spezialschuh-Ausstatter GmbH  
[www.abeba.com](http://www.abeba.com)



**Bimos** - Interstuhl Büromöbel GmbH  
[www.bimos.com](http://www.bimos.com)

- Cleanroom Mop Systems.

- Cleanroom Shoes

- Cleanroom Chairs



GERMANY



UK

- Cleanroom Wipes with highest quality possible

- Cleanroom consumables, disinfectants and Alcohols

- Clean & Sterile Ppe For Life Science



**Berkshire** Corporation  
[www.berkshire.com](http://www.berkshire.com)



**MicronClean** Ltd  
[www.micronclean.com](http://www.micronclean.com)



**ISOfield**  
[www.isofield.com](http://www.isofield.com)

- Cleanroom Goggles



**Univet**  
[www.univetsafety.com/](http://www.univetsafety.com/)

- Cleanroom Sticky Mats, Papers, Shoes and Glove Liners



**Purus** International Inc.  
[www.purusint.com](http://www.purusint.com)

- Cleanest Cleanroom Gloves



**Riverstone Resources**  
[www.riverstone.com.my](http://www.riverstone.com.my)

- Cleanroom Garments



**Alsico** High Tech  
[www.alsicohightech.com](http://www.alsicohightech.com)



ITALY



CANADA



MALAYSIA



BELGIUM

# Our Representatives

bimos

UNIVET  
OPTICAL TECHNOLOGIES

ISO field  
Protecting Life Science

alsico  
hightech

micronclean  
QUALITY TODAY - INNOVATION TOMORROW

PURUS

Berkshire  
ENGINEERED - CLEAN

PROTECT  
2CLEAN

IAB  
Reinraum-Produkte GmbH

PPS  
PFENNIG PROFI SYSTEM

ABEBA®

## ➤ Cleanroom Garments

- Coveralls (Reusable/Disposable & Sterile/Non-Sterile)
- Coats (Reusable/Disposable & Sterile/Non-Sterile)
- Bonnets (Reusable/Disposable & Sterile/Non-Sterile)
- Hats (Reusable)
- Hoods (Reusable/Disposable & Sterile/Non-Sterile)
- Overshoes (Reusable/Disposable & Sterile/Non-Sterile)
- Over Boots (Reusable/Disposable & Sterile/Non-Sterile)
- Socks (Reusable/Disposable & Sterile/Non-Sterile)
- Masks (Reusable/Disposable & Sterile/Non-Sterile)
- Shoes

## ➤ Cleanroom Gloves

- Sterile Gloves (Latex & Nitrile)
- Non-Sterile Gloves (Latex, Nitrile, Polyethylene, Vinyl)
- Finger Gloves (Latex & Nitrile)
- Knitted Gloves

## ➤ Cleanroom Wipes

- Sterile Wipes
- Dry Wipes
- Pre-Saturated Wipes
- Sponge Wipes

## ➤ Swabs

## ➤ Cleanroom Mats / Floorings

- Sticky Mats
- Permanent Mats

## ➤ Cleanroom Stationary

- Notebooks (Rule, Grid, A4, A5)
- Papers (A3, A4, A5)
- Pens (Sterile & Non-Sterile, IPA Resist.)
- DCR Pads
- Tapes
- Rolls

## ➤ Cleanroom Cleaning Equipment

- Mops (Single use / Re-Usable)
- Mop Systems
- Mop Heads
- Vacuum Cleaners
- Isolators

## ➤ Cleanroom Disinfection Systems

- Disinfection Systems (Wet - Dry)
- Disinfectants
- Disinfection Service
- Alcohols

## ➤ Cleanroom Goggles

## ➤ Cleanroom Filters

- HVAC Filters
- Hepa Filters
- Water System Filters (RO System)
- 100% Endotoxin Removal Filters
- Cross Flow Filters

## ➤ Cleanroom Furniture

- Work Benches
- Racks
- Chairs
- Transport Trolleys

## ➤ Cleanroom Cabinets

- LF Units
- Bio-Safety Cabinets

## ➤ Air Shower

## ➤ Isolators

## ➤ Biological Indicators



#### ENX™ Ultrafilter for Endotoxin Removal

The ENX™ Ultrafilter assists in preparing water or bicarbonate concentrate to meet the requirements to produce ultrapure dialysate according to the ANSI/AAMI 11663 standard. The filter's unique proprietary single-stage design removes bacteria, viruses, endotoxins and other contaminants greater than 0.005 micron and has an expected life of up to 6 months.

- Filter Membrane: MediSulfone® membrane
- Material: Polysulfone
- Pore Size: 0.005 micron (5 nm)
- Max. Flow Rate: 1.8 gpm (6.81 lpm)
- Bacteria Retention: 11 log reduction (B. diminuta)
- Virus Retention: 8 log reduction (PhiX-174)
- Endotoxin Retention: 5 log reduction EU/ml
- Dimensions: 6.30" L x 1.96" D
- Connections: Proprietary 1/4" quick connect
- Recommended Replacement Cycle: Up to 6 months post RO/DI
- Disinfection Methods Compatible: Chemical, Heat
- Max. Inlet Pressure: 75 psi (5 bar)
- Max. Inlet Pressure During Heat Cycle: 30 psi (2 bar)
- Potting Material: Polyurethane
- Housing and Endcaps: Medical Grade Acrylonitrile Butadiene Styrene



#### FiberFlo A Pleated Filters

Polyethersulfone Pleated Cartridge Filters

FiberFlo "A" polyethersulfone cartridges are absolutely rated cartridge filters. Made of polyethersulfone membrane, the filters have an increased surface area with excellent flow rates per 10-inch lengths. Their compatibility with a broad range of chemicals and physiological inertness makes them suitable for the filtration of sera, diagnostic reagents, biological fluids, acids, bases, water and solvents.

- Filter Media: Pleated Polyethersulfone Membrane
- Membrane Support, Core Tube and End Caps: Polypropylene
- Sealing Technology: Thermal Bonding
- Endotoxins: Less than 0.5 EU/ml
- Biosafety: All components meet or exceed USP Class VI-121°C (250°F) plastic tests
- Oxidizable Substances: Filtrate meets or exceeds USP XXI requirements for purified water after 1 liter flush
- O-Ring: Silicone
- O-Ring Color: Red
- Max. Differential Pressure:
  - Forward: 50 psi (3.4 bar) at 68°F (20°C)
  - Reverse: 40 psi (2.7 bar) at 68°F (20°C)
- Max. Operating Pressure: 120 psi (7 bar) at inlet
- Pore Sizes: 0.03, 0.10, 0.22, 0.45, 0.65, 0.80, 1.0, and 1.2 microns



**FiberFlo® EN Endotoxin Removal Filters  
100% Endotoxin Removal FiberFlo Cartridge Filter**

- Removes endotoxin/pyrogen
- Dead end filtration - No waste stream from tangential flow
- Higher flow rates at lower pressure drops
- Autoclavable (121°C) and steam sterilizable
- Extended life—cleanable, sanitizable
- In-situ integrity testable
- Natrually hydrophilic membranes
- Biocompatible for medical application
- Fits inside standard cartridge filter housings
- Membrane: Polyphen® Polysulfone
- Maximum Differential Pressure: 2 Bar (30 PSI)
- Membrane Surface Area (Per 10" Segment): 1.5 m<sup>2</sup> (16 ft<sup>2</sup>)
- Filter Diameter: 6.4 cm (2.9")
- Nominal Length: 25 cm, 51 cm, 76 cm, 102 cm (10", 20", 30", 40")
- Case and End Caps: Polycarbonate
- Seal Materials: Medical Grade Polyurethane
- Extractables: Passes U.S.P. tests for oxidizable substances and total solids for purified water.

Fiber meets all USP-XXIII Class VI criteria as well as test standards for tissue cytotoxicity.



**FiberFlo® EN Endotoxin Removal Filters  
100% Endotoxin Removal FiberFlo Capsule Filter**

- Removes endotoxin/pyrogen
- Dead end filtration - No waste stream from tangential flow
- Higher flow rates at lower pressure drops
- Autoclavable (121°C) and steam sterilizable
- Extended life—cleanable, sanitizable
- In-situ integrity testable
- Natrually hydrophilic membranes
- Biocompatible for medical application
- Fits inside standard cartridge filter housings
- Membrane: Polyphen® Polysulfone
- Maximum Differential Pressure: 2 Bar (30 PSI)
- Surface Area: M = 0.61 m<sup>2</sup> (2.0 ft<sup>2</sup>), L = 1.83 m<sup>2</sup> (6.0 ft<sup>2</sup>)
- Case and End Caps: Polycarbonate
- Extractables: Passes U.S.P. tests for oxidizable substances and total solids for purified water.
- Seal Materials: Medical Grade Polyurethane

Fiber meets all USP-XXIII Class VI criteria as well as test standards for tissue cytotoxicity.





**FiberFlo Hollow Fiber Capsule Filters**

- Higher flow rates at lower pressure drops
  - Extended life—cleanable, sanitizable
  - Removes pyrogens\*
  - Polyphen® polysulfone filters can be autoclaved
  - Quick rinse-up in ultrapure water
  - In-situ integrity testable
  - Hydrophilic membranes and hydrophobic membranes
  - Biocompatible for medical applications
- \*FiberFlo 50 and FiberFlo 100 only
- Pore Size (mm): 0.03 absolute<sup>1</sup>, 0.05 absolute<sup>1</sup>, 0.1 absolute<sup>1</sup>, 0.2 absolute<sup>1/2</sup>, 0.45 absolute<sup>1</sup>
  - Membrane: Hydrophobic 0.03 absolute<sup>1</sup> Poly- propylene, rest Hydrophilic Polyphen® Polysulfone
  - Sanitization: 0.03 absolute<sup>1</sup> Not Autoclavable, rest May be autoclaved up to five 20-minute cycles at 121°C (250°F) and 15 psig (1 bar) and/or Chemical sanitization with 1% Minncare® Cold Sterilant
  - Maximum Differential Pressure: 30 PSI (2 Bar)
  - Surface Area: M = 2.0 ft<sup>2</sup>, L = 6.0 ft<sup>2</sup>
  - Diameter: M = 1", L = 2"
  - Nominal Length: M, L = 6.5"
  - Case and End Caps: Polycarbonate
  - End Seals: Polyurethane
  - Extractables: Passes U.S.P. testing for less than 500 ppb when fed U.S.P. purified water.

Fiber meets all USP-XXIII Class VI criteria, as well as test standards for tissue cytotoxicity.



**FiberFlo® Hollow Fiber Cartridge Filters**

- Fine filtration
  - Longer filter life
  - Higher flow rates at lower pressure drops
  - Extended life—cleanable, sanitizable
  - Removes pyrogens\*
  - Autoclavable and steam sterilizable
  - Quick rinse-up in ultrapure water
  - In-situ integrity testable
  - Hydrophilic membranes—repeatedly rewettable without wetting agent
  - Biocompatible for life science and medical applications
- \*Only the pore sizes of the FiberFlo 50 and FiberFlo 100 are validated to remove pyrogens
- Pore Size mm: 0.05 absolute<sup>1</sup>, 0.1 absolute<sup>1</sup>, 0.2 absolute<sup>1/2</sup>, 0.45 absolute<sup>1</sup>
  - Maximum Flow Rate(per 10" segment): 2.5 GPM, 3.0 GPM, 3.0 GPM, 5.0 GPM
  - Membrane: Polyphen® Polysulfone
  - Maximum Differential Pressure: 30 PSI (2 Bar)
  - Surface Area (per 10" segment): 16 ft<sup>2</sup> (1.5 m<sup>2</sup>)
  - Diameter: 2.9" (6.4 cm)
  - Nominal Length: 10", 20", 30", 40" (25 cm, 51 cm, 76 cm, 102 cm)
  - Case and End Caps: Polypropylene
  - End Seals: Polyurethane
  - Extractables: Passes U.S.P. tests for oxidizable substances and total solids for purified water.

Fiber meets all Class VI criteria as well as test standards for tissue cytotoxicity.

**FiberFlo 30**

FiberFlo HF 30 offers very fine filtration for gas and venting applications. This polypropylene hollow fiber filter has an absolute pore removal rating of 0.03µm. The hydrophobic hollow fiber membrane repels water, but can be wetted by an aqueous solution with high surface tension if prewetted with alcohol.

**FiberFlo 50**

FiberFlo HF 50 offers the highest degree of control of particulates and microorganisms through its absolute pore removal rating of 0.05µm and the retentive characteristics of its Polyphen® polysulfone membrane. It is recommended for the most demanding pyrogen removal applications. FiberFlo HF 50 will remove 100 percent of endotoxin when challenged with a feed concentration of 5.0 EU/ml.\*\*

**FiberFlo 100**

FiberFlo HF 100 offers the best balance of flow, pressure, retentive capacity, pyrogen removal and cost. Its absolute pore removal rating of 0.1µm and overall pore structure gives high water flow rates and excellent control of particulates, microorganisms and pyrogens. FiberFlo HF 100 will remove 100 percent of endotoxin when challenged with a feed concentration of 1.0 EU/ml.\*\*

**FiberFlo 200**

FiberFlo HF 200 offers maximum flow rates without loss of bacteria retention. Absolute removal of *Brevundimonas diminuta* is a characteristic of this filter. The ability of FiberFlo HF 200 to remove bacteria and particulates gives it performance characteristics unmatched by traditional 0.2 micron pleated membrane filters.

**FiberFlo 450**

FiberFlo HF 450 offers high flow rates and high filtration efficiency for clarification and prefiltration applications in biological solutions, ultrapure chemicals and purified water. The 0.45 micron (absolute rating) capsules provide superior particle control and filter life compared to traditional 0.45 micron pleated filters

\*\*Test sensitivity of 0.06 EU/ml

**FiberFlo 50**

FiberFlo HF 50 offers the highest degree of control of particulates and microorganisms through its absolute pore removal rating of 0.05 µm and the retentive characteristics of its Polyphen® polysulfone membrane. It is recommended for the most demanding bacteria, particle and pyrogen removal applications. FiberFlo HF 50 will remove 100 percent of endotoxin1 when challenged with a feed concentration of 5.0 EU/ml.

**FiberFlo 100**

FiberFlo HF 100 offers the best balance of flow, pressure, retentive capacity, pyrogen removal and cost. Its absolute pore removal rating of 0.1µm and overall pore structure gives high water flow rates and excellent control of particulates, microorganisms and pyrogens. FiberFlo HF 100 will remove 100 percent of endotoxin1 when challenged with a feed concentration of 1.0 EU/ml.

**FiberFlo 200**

FiberFlo HF 200 offers maximum flow rates without loss of bacteria retention. Absolute removal of *Brevundimonas diminuta* is a characteristic of this filter. The ability of FiberFlo HF 200 to remove bacteria and particulates gives it performance characteristics unmatched by traditional 0.2 micron pleated membrane filters.

**FiberFlo 450**

FiberFlo HF 450 is designed for prefiltration and fluid clarification applications. The HF 450 assures maximum protection of downstream sterilizing filters. It provides superior particle control, dirt holding capacity, and flow rates. The ability of the FiberFlo HF 450 to remove particulates is unmatched by traditional 0.45µm absolute pleated membrane filters.

\*Test sensitivity of 0.06 EU/ml.



**FiberFlo® MicroFiber Filters**

- Greater void volume than resin bonded or wound cartridge.
- Homogeneous high purity media. Fibers free of residual extrusion oils, surfactants, antistatic agents and resin binders.
- Fibers thermally bonded - dimensionally stable filter media.
- Increased dirt-holding capacity. Longer service life. Lower initial pressure drop.
- Hydrophobic media.
- High efficiency media.
- Easily ground into powder or incinerated.
- Reduced fiber migration. Micron rating not altered as differential pressure increases. Rigid, highly porous cartridge does not require a support core.
- Results in particle entrapment throughout depth of media reducing surface blinding and increasing dirt holding capacity.
- Filter will absorb undissolved and non-emulsified oil out of liquid, air or gas streams.
- Reduced waste volume
- Differential Pressure: Max Recommended: 35 PSIG/ Change Out: 15 PSIG/ Initial: 1-3 PSIG
- Operating Temperature: Maximum: 200°F
- Lengths (in inches): 9 3/4, 10, 19 3/4, 20, 29 1/4, 29 3/4, 30, 40
- O-Ring or Flat Gaskets: Silicone, VITON®, Buna-N, ERR, Neoprene
- Micron Ratings: 1, 3, 5, 10, 25, 50, 75, 100, 150



**FiberFlo NY Pleated Filters**

FiberFlo "NY" nylon 6,6 cartridges are absolute rated cartridge filters. Made of nylon membrane, the filters have an increased surface area with excellent flow rates per 10 inch lengths. Nylon is compatible with a broad range of chemicals. FiberFlo "NY" filters provide an economical alternative for the filtration of water, acids, bases, solvents, and other process fluids. FiberFlo "NY" cartridges consist of a nylon membrane with thermally bonded polypropylene components to provide a very durable filter with only two materials of construction.

The nylon membrane contains no surfactants or surface wetting agents. Manufactured under QSR, the filters are integrity tested in manufacturing to ensure consistent and reliable performance and flushed with 17+ meghom cm water to remove any manufacturing debris.

Each FiberFlo "NY" cartridge filter is manufactured under QSR, representative samples from each manufacturing lot are tested for integrity to ensure consistent performance. All FiberFlo "NY" cartridges pass USP XXI class VI plastic tests, as well as tests for cytotoxicity, hemolysis and pyrogenicity.

- Filter Media: Pleated Nylon 6,6 Membrane
- Membrane Support, Core Tube and End Caps: Polypropylene
- Sealing Technology: Thermal Bonding
- Endotoxins: Less than 0.5 EU/ml
- Biosafety: All components meet or exceed USP Class VI-121°C (250°F) plastic tests
- Oxidizable Substances: Filtrate meets or exceeds USP XXI requirements for purified water after 1 liter flush
- O-Ring: Silicone
- O-Ring Color: Red
- Max. Differential Pressure: Forward: 50 psi (3.4 bar) at 68°F (20°C) - Reverse: 40 psi (2.7 bar) at 68°F (20°C)
- Pore Sizes: 0.10, 0.22, 0.45, and 0.65 microns



**FiberFlo PM Pleated Filters**

FiberFlo "PM" polypropylene cartridges are absolutely rated cartridge filters. Made of polypropylene membrane, the filters have an increased surface area with excellent flow rates per 10 inch lengths. Their compatibility with a broad range of chemicals makes them suitable for the filtration of acids, bases, water and solvents.

The hydrophobic nature of the membrane makes "PM" filters an economical alternative to polytetrafluorethylene (PTFE) membrane filters in air, process gas and vent filter applications.

- Filter Media: Pleated Polypropylene Membrane
- Membrane Support, Core Tube and End Caps: Polypropylene
- Sealing Technology: Thermal Bonding
- Endotoxins: Less than 0.25 EU/ml
- Biosafety: All components meet or exceed USP Class VI-121°C (250°F) plastic tests
- Oxidizable Substances: Filtrate meets or exceeds USP XXI requirements for purified water after 1 liter flush
- O-Ring: Silicone
- O-Ring Color: Red
- Max. Differential Pressure: Forward: 50 psi (3.4 bar) at 68°F (20°C) - Reverse: 40 psi (2.7 bar) at 68°F (20°C)
- Pore Sizes: 0.10 and 0.20 microns
- Max. Operating Temperature: 180°F (82°C)



**FiberFlo Pleated Filters  
Polypropylene Pleated Cartridge Filters**

- Increased dirt holding capacity
- Long service life
- Homogenous high purity media
- Homogeneous high purity media. Fibers free of residual
- Extrusion oils, surfactants, antistatic agents and resin binders.
- Stratified pore structure allows separation of solids along a size gradient.
- Rigorous quality standards for polypropylene selected.
- High surface area.
- Meets FDA requirements for food contact.
- Results in particle entrapment throughout depth of media, reducing surface blinding and increasing dirt holding capacity.
- Exhibits very low protein binding characteristics. Meets USP XXI Class VI Plastic Tests, as well as tests for cytotoxicity, hemolysis and pyrogenicity
- Filter Media: Pleated Polypropylene Depth Media
- Membrane Support, Core Tube and End Caps: Polypropylene
- O-Ring: Silicone
- O-Ring Color: Red
- Maximum Differential Pressure at 68°F (20 °C) Forward: 50 psi (3.4 bar) at 68°F (20°C) - Reverse: 40 psi (2.7 bar) at 68°F (20°C)
- Operating Temperature: Maximum 180°F (82°C) at 10 psi (0.69 bar) in water
- Micron Ratings: 0.2, 0.4, 1.0, 3.0, 5.0, 10, 30, and 60



**FiberFlo T Pleated Filters  
Polytetrafluoroethylene (PTFE) Pleated  
Cartridge Filters**

FiberFlo PTFE cartridge filters provide microfilter users with reliable flow rates, chemical compatibility, economical filtration and solvent compatibility. Containing 7.0 square feet of expanded PTFE membrane, FiberFlo PTFE Filters offer users a highly efficient hydrophobic "barrier", ensuring low moisture content of ultrapure gasses. Additionally, it will ensure filtration performance in the purification of aggressive liquids and organic solvents. Each FiberFlo PTFE cartridge filter is manufactured under QSR; representative samples from each manufacturing lot are tested for integrity to ensure consistent performance.

- Membrane: PTFE
- Support Layers: Polypropylene
- Cartridge Hardware: Polypropylene
- Maximum Operating Pressure: Forward: 50 psi (3.4 bar) @ 68°F (20°C)  
Reverse: 40 psi (2.7 bar) @ 68°F (20°C)
- Chemical Compatibility: Compatible with most semiconductor grade solvents and other chemicals.



**FiberFlo® TF 1680  
Hollow Fiber Crossflow Filtration**

FiberFlo TF 1680 Cartridges are made using the unique polysulfone hollow fiber membranes available only from Mar Cor Purification. The TF Cartridge is available in a pore size of 0.1µm and 0.05µm, 0.2µm & 0.45µm pore sizes are available for pre-assessment.

Ideal for separation and purification applications, the polysulfone fibers have a graded pore size structure with a "skin" on the inside of the fibers. Fluids, even with varying viscosities, flow easily through the center of the fibers (inside the lumens) with the skin resistant to fouling by materials in the fluids.

FiberFlo TF 1680 cartridges are available for use in pilot and small production scale environments; stainless steel housing required. The TF 1680 cartridges have much higher membrane surface area than small scale laboratory capsules, also available from Mar Cor Purification, making them ideal for scale up from laboratory batch volumes to pilot and small production batch volumes

- Membrane Material: Polysulfone Hollow Fiber
- Cartridge Cage Material: Polysulfone
- Fiber Sealing Technology: Urethane Potting
- Membrane Surface Area: 16.8 ft<sup>2</sup> (1.6 m<sup>2</sup>)
- Fiber Flow Path Length: 9.5" (24 cm)
- Biosafety: All components meet or exceed USP Class VI-121C plastic test
- Oxidizable Substances: Permeate and Retentate meet USP XXIX requirement
- Endotoxins: Less than 0.25 EU/m
- Maximum Recommended Trans-Membrane Pressure at 25°C: 30 p.s.i
- Maximum Continuous Operating Temperature, 200 Hours Total Exposure: 80°C
- Air Diffusion (Inside Lumen to Out- side Lumen): 80cc/minute @ 30ps



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