

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 0.1 μ m and 0.05 μ m, 0.2 μ m & 0.45 μ m pore sizes are available for pre-assessment.

Dependable Membrane Performance

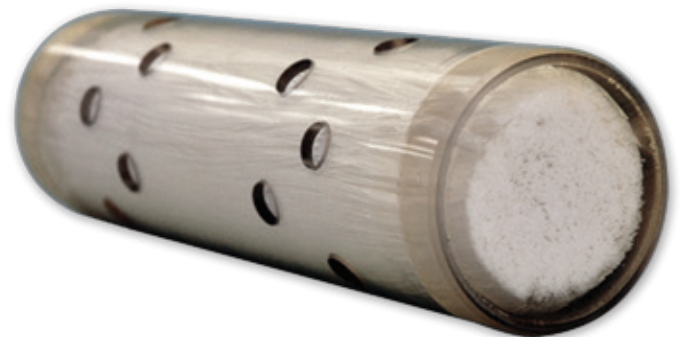
The Hollow Fiber membrane is produced in a registered FDA medical device facility under an extensive quality program compliant with ISO 13485:2003 standard. Each membrane lot is tested to rigorous standards resulting in very consistent performance not only within each lot but also from lot to lot.

Hollow Fiber Membrane Structure

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

Product Configuration

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.



Typical Applications

The Microfiltration membranes are ideal for many applications in biotechnology that include:

- Latex microparticle washing & coating
- Cell concentration
- Cell Debris removal
- Cell harvest
- Cell perfusion
- Multi-particle washing

Traceability

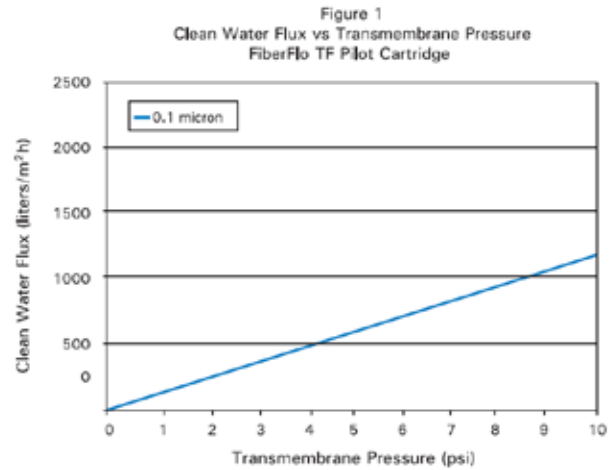
Each cartridge has a unique serial number etched into the case. Each is packaged in two sealed plastic pouches. Each shipping carton also contains a Certificate of Compliance and the Directions for Use

Technical Data

FiberFlo TF 1680 Specifications	
Membrane Material	Polysulfone Hollow Fiber
Cartridge Cage Material	Polysulfone
Fiber Sealing Technology	Urethane Potting
Membrane Surface Area	16.8 ft ² (1.6 m ²)
Fiber Flow Path Length	9.5" (24 cm)
Cleanliness and Biosafety	
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
Operating Characteristics	
Maximum Recommended Trans-Membrane Pressure at 25°C	30 p.s.i
Maximum Continuous Operating Temperature, 200 Hours Total Exposure	80°C
Integrity Test	
Air Diffusion (Inside Lumen to Outside Lumen):	80cc/minute @ 30ps

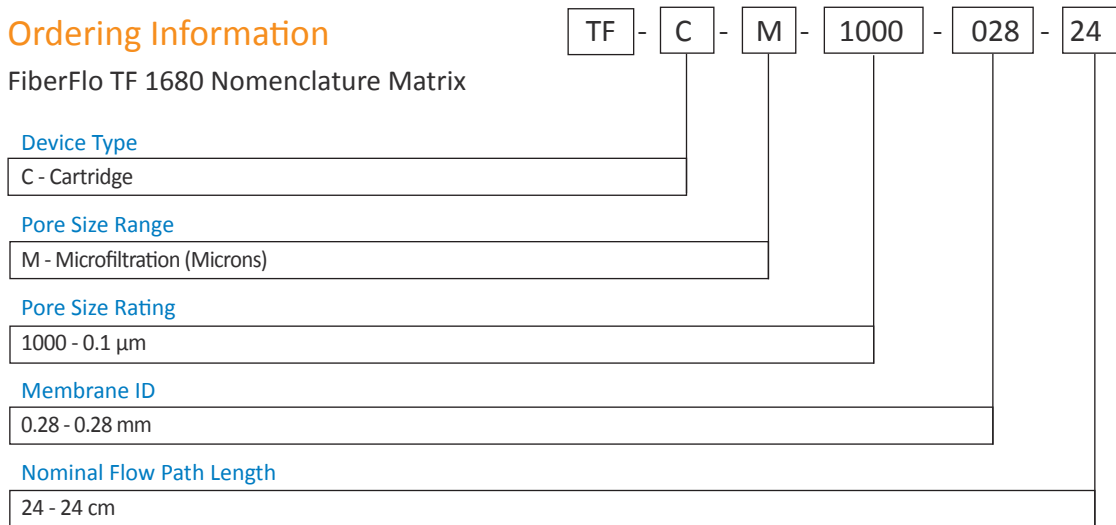
Clean Water Flux

Figure 1 shows the normalized water flux rate for the 0.1µm pore size filter through a range of transmembrane pressures. This flux data is a guide for system design. Flux rates for solutions will vary depending on solution particulate load and viscosity.



Ordering Information

FiberFlo TF 1680 Nomenclature Matrix



Mar Cor Purification
4450 Township Line Road
Skipack, PA 19474-1429
Tel: (484) 991-0220
Toll Free: (800) 346-0365
Fax: (484) 991-0230

Mar Cor Purification
14550 28th Avenue North
Plymouth, MN 55447
Tel: (484) 991-0220
Toll Free: (800) 633-3080
Fax: (763) 210-3868

Mar Cor Purification
3250 Harvester Road - Unit 6
Burlington, ON L7N 3W9
Tel: (905) 639-7025
Toll Free: (800) 268-5035
Fax: (905) 639-0425

Mar Cor Purification
Sourethweg 11
6422 PC Heerlen
The Netherlands
Tel: (+31) 45 5471 471
Fax: (+31) 45 5429 695

Mar Cor Purification
1A International
Business Park, #05-01
Singapore 609933
Tel: (+65) 6227 9698
Fax: (+65) 6225 6848