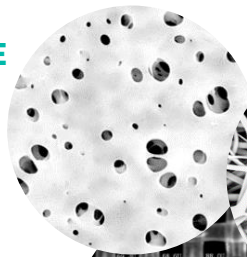


# Filtration Technology Material Overview

## Customize with the optimal material for your application

Optimize filter performance with our extensive library of nearly 20 micro-filtration materials. Filtration materials can be categorized according to the type (media, membrane, screen), the effective pore size or micron rating, the pore distribution (symmetric vs. asymmetric), and the affinity for water (hydrophilic vs. hydrophobic).

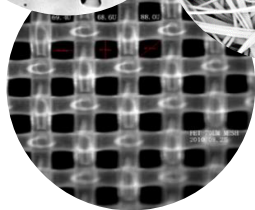
### MEMBRANE



### MEDIA



### SCREEN



A multi-layer filter may be required to achieve certain performance requirements. The engineering team at Saint-Gobain can optimize layering of filter materials to achieve three main goals: filter lifetime, multi-stage filtration, and multi-functional filtration.

### PURIFICATION OF LIQUID + GAS

- Pre-filtration
- Sterile filtration
- Multi-stage filtration

### MATERIALS

- Glass Fiber
- Nylon (Membrane, Media, Screen)
- Polyester Screen
- Polyethersulfone (PES)
- Polyethylene
- Polypropylene
- PTFE
- Stainless Steel Screen

# Filter materials for medical device applications

The table below provides an overview of the filter materials in our extensive library, including the material type, pore size range, and recommended application. Not all filter materials are compatible with each filter configuration (disc, cartridge, capsule). **Consult with the experts** at Saint-Gobain Medical to determine the appropriate filter material/s for your application.

Material	Pore Size Range	Primarily Recommended for:			
		Sterilizing	Pre-Filter/ Particulate Removal	Liquid	Gas
<b>Membrane materials</b>					
PTFE	0.1 - 10 µm	X	X	X	X
PTFE, Super-phobic	0.2 µm		X		X
Polyethylene	0.2 µm	X			X
Nylon	0.05 - 1.2 µm		X	X	
Polyethersulfone (PES)	0.04 - 1.2 µm	X	X	X	
Charged Nylon	0.05 - 1.2 µm		X	X	
<b>Media materials</b>					
Nylon Non-Woven	1 - 40 µm		X	X	
Glass Fiber	ULPA, HEPA, 0.2 - 30 µm		X		X
Natural Glass Fiber	0.5 - 5.0 µm		X	X	
Polypropylene (PP)	HEPA, 0.3 - 150 µm		X	X	X
High-performance PP	0.1 - 10 µm		X	X	
Depth PP	0.2 - 20 µm		X	X	
Carbon Fiber	N/A		X		X
<b>Screen materials</b>					
Nylon Screen	7 - 300 µm		X	X	
Polyester Screen	7 - 73 µm		X	X	
Stainless Steel Screen	18 - 250 µm		X	X	

**We design, develop and deliver custom medical components and engineered systems for medical devices**

Silicone Molding • Filtration Technologies • Extrusion Solutions • Catheter Systems • Specialty Closures

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