

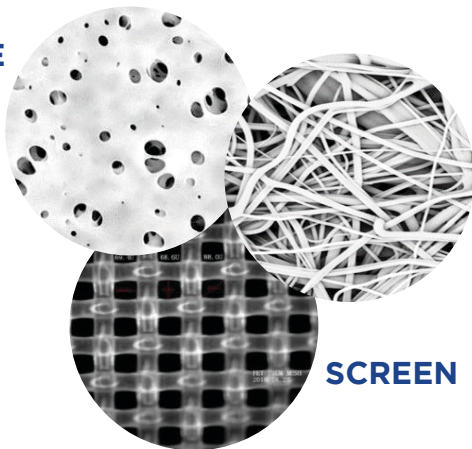
Filtration Technology Material Overview

Customizable Materials for Industrial Applications

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).

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.

MEMBRANE



MEDIA

SCREEN

PURIFICATION OF LIQUID + GAS

- Pre-filtration
- Multi-stage filtration

MATERIALS

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



Filter Materials for Industrial 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 to determine the appropriate filter material/s for your application.

Material	Pore Size Range	Primarily Recommended for:		
		Pre-Filter/ Particulate Removal	Liquid	Gas
Membrane materials				
PTFE	0.1 - 10 µm	X	X	X
PTFE, Super-phobic	0.2 µm	X		X
Polyethylene	0.2 µm			X
Nylon	0.05 - 1.2 µm	X	X	
Polyethersulfone (PES)	0.04 - 1.2 µm	X	X	
Charged Nylon	0.05 - 1.2 µm	X	X	
Media materials				
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
Screen materials				
Nylon Screen	7 - 300 µm	X	X	
Polyester Screen	7 - 73 µm	X	X	
Stainless Steel Screen	18 - 250 µm	X	X	

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