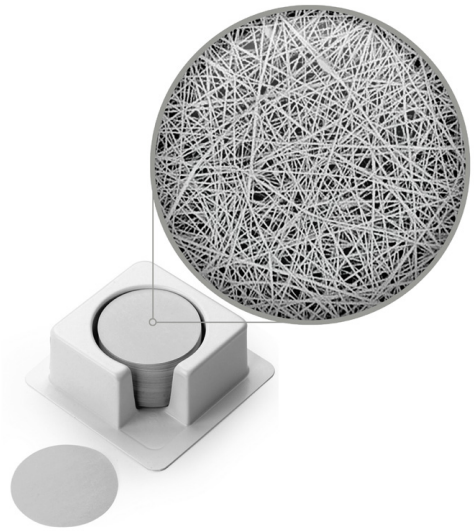
POLYACRYLONITRILE MEMBRANE FILTERS

Polyacrylonitrile (PAN) membranes combine excellent selectivity, high flow rates and low pressure requirements which helps laboratories simplify their filtration setups while maintaining quality and efficient workflow.



PAN's unique nanofiber mesh construction combines extremely fine pores with ample open space to allow easy liquid flow while trapping particulates up to 0.2 µm in width. These membranes are created by extruding fine PAN nanofibers onto a polyester support substrate. The nanofibers' tight mesh filters out particles, colloids, and bacteria larger than 0.2 µm. The mesh's structure allows both water and aqueous solutions to quickly pass through with little applied pressure.

SPECIFICATIONS

GENERAL	
Pore Size	0.2 µm equivalent
Membrane Material	PAN Nanofibers on PET Support Substrate
Avg. Bubble Point	>60 psi (>4.1 bar)
BSA Protein Binding	~160 µg/cm²
Max. Operating Temp.	90°C (194°F)
Avg. Thickness	180-200 µm
Retention (log reduction)	6 *(E.Coli, R.Terrigena, B.Diminuta)*
Viral Reduction	4 log reduction (MS2 Bacteriophage)

APPLICATIONS

- Water, biopharmaceutical, and process fluid purification
- Food and beverage filtration: wine, bottled water, beer, dairy
- Drinking water: gravity-fed purifiers, RO post-filters, under-sink systems, refrigerator filters, bottled water coolers

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