

MEMFILL TECH PRIVATE LIMITED

MEMFILL - Company background we are expert in membrane technologies and manufacturing Composite hollow fiber membranes for water, wastewater and water reuse applications covering various Industries.

Our extensive R&D activities have resulted in indigenously producing a range of high quality and durable Hollow fiber membranes. Further, we offer our innovative process know-how, tailor-made turnkey solutions to markedly reducing the operating expense.

Memfill's Ultra-Filtration (UF), PAN Hollow fiber membrane has developed for high TSS and Turbidity removal from various industries. Our proprietary Polyacrylonitrile (PAN) membranes are extremely durable and strength. Nominal pore size is $0.02 \mu\text{m}$ offers equivalent permeate.

Ultrafiltration (UF) membranes have a retention defining microporous outer skin and a more open inner layer for increased filtration with higher recoveries.

Memflow-UF-PAN



MEMFILL

Hollow Fibers. Smarter Solutions.

Memflo-UF-PAN

Product Name: Memflow UF PAN Series

Features

- 0.02µm pore size guarantees stable permeate
- Modified PAN membrane with easy wetting performance
- High tolerance to varying influent water qualities
- Reduced pre-treatment requirements due to outside-in flow
- Energy saving due to low operating pressure

Applications

- Water treatment: Drinking water, water purification in electronics manufacturing, and other industrial processes
- Bio-pharmaceutical processing: Purification stages and production of active pharmaceutical ingredients
- Concentration: Whey or protein, oil/water mixtures
- Other applications: Fuel oil/water separations, and applications that require tolerance to many solvents and oils

Product Model	Memflow UF P31	Memflow UF P40	Memflow UF P45	Memflow UF P50	Memflow UF P60
Membrane Material	Polyacrylonitrile (PAN)				
Shell and Seal Material	PVC / UPVC & Epoxy Resin				
Diameter X Length (mm)	200 x 1713	200 x 1713	200 x 1713	200 x 1713	200x2020
Effective Membrane Area	~31 m ²	~40 m ²	~45 m ²	~50 m ²	~60 m ²
Design Flux	~ 40 - 120 L/m ² /h (Output flux may vary depending of feed water quality)				
Nominal Pore Size	0.2 micron				
Molecular Weight Cut Off	100,000 Dalton				
Bacteria Removal Rate	> 4 log				
Operating Mode	Cross Flow				
Flow Type	Out-in / In-out				
Operating Temperature	5 - 40°C				
pH Range	2 - 10				
Max. Operating Pressure	~ 1 - 2 bar				
Suggested Operating Pressure	< 1 bar				
Max. Transmembrane Pressure	<				
Backward Pressure	2 - 3 bar				
Permeate Turbidity	< 0.1 NTU				

Note :

Based on the source / quality / fluctuation of feed water the duration of backwash frequency may change.

Chlorine tolerance for an hour: ~200000 ppm / chemical for cleaning: NaOCL, NaOH, HCL

Although our membrane is made durable, customers are responsible for the use of incompatible chemicals which may affect the performance so failure. For guidelines and clarifications please contact our technical staff.

