

Complies with USFDA 21 CFR 211.72  
 Microbially Validated as per ASTM F 838-83  
 Meets USFDA 21 CFR 177.1520

# PES Membrane Cartridge Filters

## Type-CFPE

**Nupore CFPE** is a serial filtration Polyethersulfone cartridge filter, designed to incorporate a large pore size upstream membrane layer to protect the downstream terminal filtration membrane layer.

## Special Features

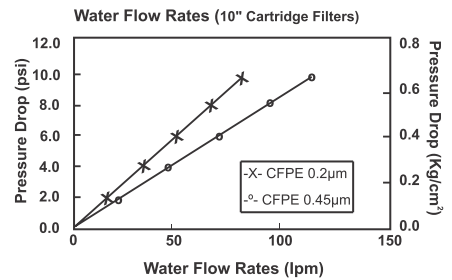
- Very high flow rates
- 100% Integrity tested
- Absolute retention
- Low protein binding
- **Total traceability:** Unique marking on each filter

## Applications

- Manufacturing of Large Volume Parenterals
- Manufacturing of Water for Injection
- Processing of Vaccines
- Sterilization of Hormonal Injectables

## Specification

- **Maximum Operating Temperature :** 80°C @ ≤ 2Kg/cm<sup>2</sup>
- **Maximum Operating Pressure :** 3.5Kg/cm<sup>2</sup> @ 25°C
- **Extractables with Water :** Within limits specified in USP
- **Sterilization :** 30 autoclave/steam sterilization cycles of 30 minutes at 121°C
- **Oxidizable Matter :** Passes test as per USP
- **Biosafety :** Passes the Biological tests for Class VI plastics as per USP
- **Integrity Test Data For 10" Cartridge Filters (With Water):**  
 0.2µm @ 37psi ( 2.6kg/cm<sup>2</sup>) - Max. Air Diffusion Flow ≤ 30ml/min  
 0.45µm @ 24psi (1.68kg/cm<sup>2</sup>) - Max. Air Diffusion Flow ≤ 35ml/min



## Ordering Information:

Type		Size			Pore Size		Adaptor		Rings/ Gaskets	
Membrane	Code	Length	EFA	Code	Pore Size	Code	Adaptor	Code	Ring	Code
Polyethersulfone	CFPE	5"	0.3cm <sup>2</sup>	05	0.20µm	020	7P	U	Silicone	SS
		9.75"	0.7cm <sup>2</sup>	9.75	0.45µm	045	BEO	V	Viton	SV
		10"	0.7cm <sup>2</sup>	10			28	W	EPDM	SE
		20"	1.4cm <sup>2</sup>	20			Optiseal	X	Encapsulated PTFE	FV
		30"	2.1cm <sup>2</sup>	30			4463	Y	Synthetic Rubber	SR
							4463B	Z		
							M Disc	Q		

Example: **CFPE 05 02 U SS**