

# CMC PES PUREFILTERS



## Product Description

PES Cartridge filters are made of Poly EtherSulphone with Uniform pore distribution to ensure maximum performance in Bacterial retentions. Its upstream & down stream polyester support ensure resistance to pressure shocks. Polyethersulphone membrane is hydrophilic in nature, it allows easy integrity testing for all applications where daily controls are required. The membrane possesses broad chemical compatibilities & contains no surfactants. PES Cartridge filters are produced in controlled environments & under stringent production conditions that ensure filter quality & cleanliness. Their assembly is performed integrally by thermowelding. This processes minimizes the presence of oxidization of substance & yield durable filter cartridges suitable for extended use. This can be sanitizes by chemical agents or by inline steaming. PES and polypropylene the unique two materials used in cartridge manufacturing are chemically inert not shedding and biologically safe according to F.D.A., USP and EEC requirements for

pharmaceutical and food contact use. The filtration area of each cartridge is as high as 0.56 m<sup>2</sup>. Therefore it offers High flow rate, Low pressure drop & Long service life.

## Features

- PES Membrane is inherently Hydrophilic with excellent Hydrolytic stability & chemical compatibility
- Specific Pore size distribution for full bacterial retention to assure sterile effluent even under process upsets
- End caps and connectors are sealed by thermal bond, free binder
- Low pressure drop and high flow rate due to High Filtration area of 0.56m<sup>2</sup> Per 10" cartridge
- Autoclave or in situ team sterilization features
- Integrity test is possible
- FDA Approved

## Technical Specifications

### Sizes

5",10", 20",30"40" Long

### Micron Rating

0.10, 0.20, 0.45 Micron

### Filtration Area

More Than 0.56m<sup>2</sup> Per 10" cartridge

### Outer Diameter

70 mm

### Inner Diameter

28 mm

### Maximum Differential Pressure(25°C)

Positive direction: 0.42Mpa

Reverse direction: 0.21Mpa

## Applicable PH value

1.0~14.0

## Working Temperature& Differential Pressure

80°C(Differential Pressure:0.2 Mpa)

<b>Construction</b>	
Filter Media	PES (Poly Ethersulphone) Membrane
Support Media	Polyester Fiber
Inner Core	High Strength Polypropylene
Outer Core	High Strength polypropylene
End Caps	High Strength Polypropylene
O Ring / Gaskets	EPDM / Silicone / FI Rubber

## Applications

- Sterilization filtration in pharmaceutical and biological industry
- Sterilization filtration for drinking water, beverage, wine and various liquids
- Terminal filtration and point-of-use filtration for high pure water and deionized water
- Purification filtration for various chemical raw material and medicament
- Much finer prefiltration

**CMC Pure Filters**

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