

## Polyethersulfone Membrane Cartridge Filter AseptiSure CPPKS

**mdi** Polyethersulfone (PES) Membrane Cartridge filters Type CPPKS are disposable filtration devices to clarify/sterilize fluids. These cartridges contain double layer Polyethersulfone membrane filter embodied with polypropylene core and sleeve.

The upstream PES membrane layer protects the downstream side PES membrane layer from premature clogging. The membrane pore structure is specially designed to give high throughputs, thus resulting in better economics.

**mdi** AseptiSure- CPPKS filters are validated for key performance parameters such as retention efficiency, chemical compatibility, extractables, heat stability and flow rates. These are available in a variety of pore sizes to suit specific microfiltration needs in critical and specialized process applications.

### Special Features

- Large filtration area
- High throughputs
- Long service life
- Preflushed to minimize particulate release after installation
- Non-toxic material of construction
- Multiple autoclavable
- Heat sealed, no glues or adhesives
- Low protein binding

Microbially Validated as per ASTM F 838-83

Complies with USFDA 21 CFR 211.72

Meets and Exceeds USFDA 21 CFR 177.1520

### Application

- Sterile liquid filtration
- Filtration of proteinaceous liquid where minimum protein loss is desired, such as sera, culture soups and recombinant proteins, antibodies etc.
- Filtration of media, buffers etc.
- Water filtration

### Material of Construction

**Core and Sleeve** : Polypropylene

**Filter Membrane** : Polyethersulfone

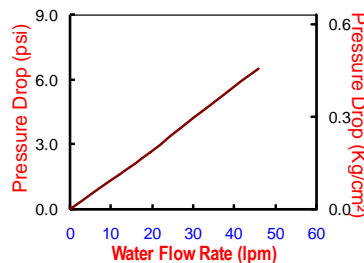
**Support Layers** : Polypropylene

### Integrity Test Data for 0.2µm Rated Cartridge (Water Wetted)

**Bubble Point** ≥ 50 psi  
(≥ 3.52 Kg/cm<sup>2</sup>)

**Air Diffusion Flow** ≤ 30 ml/min  
@37 psi

### Water Flow Rate



### Specification

#### Membrane

Polyethersulfone

#### Pore Size Rating

0.2 µm

#### Wettability

Hydrophilic

#### Sterilization

20 autoclave/steam sterilization cycles of 30 minutes at 121°C

#### Maximum Operating Pressure

3.5Kg/cm<sup>2</sup> @ 25°C

#### Maximum Operating Temperature

80°C @ < 2Kg/cm<sup>2</sup>

#### Retention Efficiency

0.2µm: LRV> 7 for Br. diminuta

#### Biosafety

Passes the Biological tests for Class VI plastics as per USP

#### Extractables with Water

Within limits specified in USP

#### Oxidizable Matter

Passes test as per USP

#### Fiber Release

Passes test as per USP



Type	Code	Size		Pore Size		Adaptor		Elastomer		Sterility		Pack Size	
		Length	Code		Code	Type/ Equivalent	Code		Code		Code	Qty	Code
CPPKS (0.8 + 0.2)	CPK5	10"	54	0.2 µm	01	7P	A0	Silicone	SS	Non Sterile	1	1	01
CPPKS (0.45 + 0.2)	CPKX					BEO	B0	Viton	SV	ETO Sterile	2		
						O	D0	EPDM	SE				
								PTFE	ST				

**EXAMPLE** CPKX 54 01 A0 SS 1 01