

## CAUSACHEM High Purity - Pleated All-Fluorocarbon Cartridges



Many variations available

**Causachem** cartridges are designed for highly aggressive wet-etch and cleaning applications. **Causachem** cartridges are constructed with 100% fluorocarbon materials, providing broad chemical compatibility and temperature resistance. The PTFE membrane delivers high flow rates and high purity effluent at low pressure drops. Cartridges are available as flushed & dried or as wet-packed (60/40% DI Water/IPA Solution). **Causachem** cartridges are manufactured in a cleanroom environment to ensure product cleanliness.

### Applications

The Causachem is ideally suited for a variety of applications. The examples below represent only a small segment of the proven applications.

- Aggressive Fluids
- Fermentation
- Venting
- Sterile Air
- Photo-resists
- Inert gases

### Features & Benefits

- Rigid construction because of thermally-bonded polyolefin fibers.
- Consistent filtration performance throughout the life of the filter.
- No media migration
- Tolerance to differential pressures
- Consistently precise filtration
- Cartridges are free of additives, wetting agents, binders and silicone
- FDA Listed Materials Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

## Product Specifications Causachem

### Dimensions

#### Length:

10 to 40 inches (25.4 to 101.6 cm) nominal

#### Outside Diameter:

2.70 inches (7.0 cm) nominal

### Maximum Differential Pressures

Forward 60 PSI (4.14 bar) at 21°C

Reverse 30 PSI (2.07 bar) at 21°C

### FDA Listed Materials

Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

### Toxicity

All components meet the specifications for biological safety per USP Class VI – 121°C for plastics.

### Construction Materials

<b>Membrane</b>	PTFE
<b>Support Media</b>	ECTFE
<b>End Caps</b>	ECTFE
<b>Center Core</b>	ECTFE
<b>Outer Support Cage</b>	ECTFE
<b>O-Rings/Gaskets</b>	Teflon® Encapsulated Viton

### Sanitization/Sterilization

Causachem cartridges may be sanitized using compatible chemical agents.

Causachem cartridges may not be autoclaved or steam sterilized.

### Integrity Testing

0.05µ ≤ 5 cc \ min at 40 psig (2.76 bar)

0.1µ ≤ 5 cc \ min at 40 psig (2.76 bar)

0.2µ ≤ 5 cc \ min at 30 psig (2.07 bar)

0.45µ ≤ 5 cc \ min at 20 psig (1.38 bar)

1µ ≤ 5 cc \ min at 15 psig (1.38 bar)

Rating (µm)	per 1 PSID @ 10" equivalent [lpm]
0.05	2.65
0.1	6.6
0.2	12.1
0.45	16.2
1.0	21.6

## Ordering Information for Causachem

Example: CCF-S10-10-SCT-B = Causachem, filtration efficiency 0.1 micron, nominal 10", open at one end with adapter SC, and flat end on the other side, gasket Teflon® encapsulated Viton®, flushed and dried

BCF-	XXX-	XX-	XX-	X	X
Cartridge Code	Particle Removal Rating (µm)	Nominal Length (in)	End Cap Configuration	Gasket O-Ring Material	Adders
CCF = Causachem Pleated All-Fluorocarbon Cartridges	<b>S05</b> = 0.05 <b>S10</b> = 0.1 <b>S20</b> = 0.2 <b>S45</b> = 0.45 <b>001</b> = 1.0	<b>10</b> = 10" (254 mm) <b>20</b> = 20" (508 mm) <b>30</b> = 30" (762 mm) <b>40</b> = 40" (1016 mm)	<b>DO</b> = Double Open End <b>SC</b> = 226 O-Ring Cap <b>SF</b> = 226 O-Ring Fin <b>TC</b> = 222 O-Ring Cap <b>TF</b> = 222 O-Ring Fin	T = Teflon® encapsulated Viton®	<b>B</b> = flushed & Dried <b>W</b> = wet packed

### Adapter / end-caps

