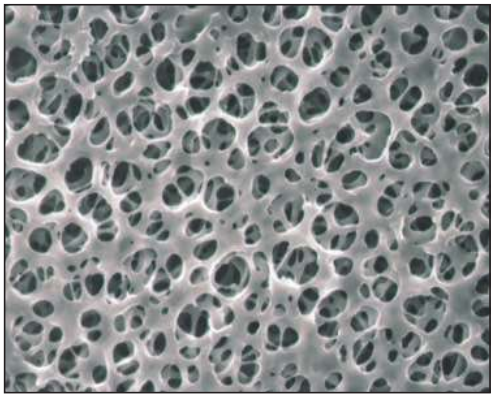
Cellulose Acetate

- **Composition:** Mixture of cellulose triacetate and diacetate
- **Characteristics:** Low static charge and high strength
- **Autoclavable:** Withstands autoclaving temperatures up to 130°C without adversely affecting bubble point, flow rate or microbiological recovery
- **Clean:** Lowest aqueous extractables (0.1 wt%) of all Advantec membranes
- Relative to MCE (Mixed Cellulose Esters, Nitrocellulose):
  - improved solvent resistance to low molecular weight alcohols
  - better heat resistance
  - lower protein binding



Cellulose Acetate

Applications

- Enhanced recovery of fastidious gram positive organisms
- Filtration of enzyme solutions
- Diagnostic cytology
- Receptor binding studies

Note: Should not be prewet prior to loading into a holder and autoclaving.

Specifications: White Plain Cellulose Acetate, Code C

Pore Size (µm)	Bubble Point *1		Flow Rate *2		Porosity *3 (%)	Thickness (µm)
	MPa	psi	Water (mL/min/cm²)	Air (L/min/cm²)		
0.20	≥0.25	≥37.1	16	2	66	125
0.45	≥0.17	≥25.9	35	4	68	125
0.80	≥0.068	≥10.0	160	14	72	125
3.00	≥0.034	≥5.0	500	54	78	135

- Wetting time: <3 seconds to wet a 47 mm diameter disc with aqueous 1% methylene blue
- Refractive index = 1.47
- Maximum operating temperature = 180°C
- Ash content 1.5–3.5 µg/cm²

Definitions:

*1. Bubble point is the minimum pressure required to force air through a membrane which has been prewet with water

*2. Flow Rate indicates initial flow rate at 10 psi using a KGS 47 filter holder
Water: using water prefiltered to 0.1 µm pore size
Air: using 25°C air at 10 psi

*3. Porosity refers to the percent open area

Metal Content of White Plain Cellulose Acetate Membrane Filters (ppm)

Al	<5.0	K	2.0	Ni	<0.5
Ca	36.4	Li	<0.5	Pb	<0.5
Cd	<0.1	Mg	1.9	Si	7.8
Cr	2.2	Mn	<0.5	Sn	<0.5
Cu	1.2	Mo	<0.5	Ti	<5.0
Fe	1.6	Na	5.9	Zn	0.6

Ordering Information: Cellulose Acetate – Non-sterile

Plain White, package of 100 discs

Pore Size (µm)	Diameter			
	13 mm	25 mm	37mm	47 mm
0.20	C020A013A	C020A025A	C020A037A	C020A047A
0.45	C045A013A	C045A025A	C045A037A	C045A047A
0.80	C080A013A	C080A025A	C080A037A	C080A047A
3.00	C300A013A	C300A025A	C300A037A	C300A047A

Plain White, package of 25 discs

Pore Size (µm)	Diameter		
	90 mm	142 mm	293 mm
0.20	C020A090C	C020A142C	C020A293C
0.45	C045A090C	C045A142C	C045A293C
0.80	C080A090C	C080A142C	C080A293C
3.00	C300A090C	C300A142C	C300A293C

Rolls, Plain White, 330 mm x 3 m

Pore Size (µm)	Roll
0.20	C020A330R
0.45	C045A330R
0.80	C080A330R

Also available in:

- Cartridge format (TCR)
- Disposable syringe filter units