

PoreCap® PES Membrane Capsule Filters



The PoreCap® series of PES (Polyethersulfone) capsule filters are ready-to-use sterile grade filtration devices which are specially used in end-stage filtration applications i.e. cell culture media, high fouling solutions, proteinaceous sample, sterile filtration, organic and aqueous samples filtration. Their key characteristics include high throughput, absolute retention, large filtration area and chemical inertness. They readily find application in life sciences research, biopharmaceuticals and healthcare industries. These are available in 0.1µm, 0.22µm & 0.45µm with 0.22µm/0.45µm/0.8µm upstream combination.

Special Features & Benefits

- ✓ Large filtration area and high flow rates
- ✓ 100% integrity tested and validated
- ✓ Sterilizing grade performance
- ✓ Low protein binding

Key Applications

- Quality Buffers preparation
- Tissue culture media and viral suspension filtration
- Microbial retention & stabilization
- Sterilization of hormonal injectables
- Manufacturing of LVPs & SVPs
- Vaccine production
- Final sterile grade filtration
- Proteinaceous samples recovery

Our Nucap Capsule filters are quality assured for retention efficiency, integrity test and flow rate and validated for Heat Stability, Beta ratio test, fiber particle release, extractables and biosafety

In Compliance with Global Standards

Bacterial Endotoxin	<i>The filtrate/Aqueous extraction from downstream of the filter exhibited endotoxin result < 0.25 EU/mL when tested as per USP <85> methodology</i>
Oxidizable Substances	<i>Oxidizable matter in filtered water meets the USP <1231> Oxidizable Substance Test requirements</i>
Non-fiber Releasing	<i>Meets the criteria for a "non-fiber releasing" filter as defined in 21 CFR 210.3(b)(6).</i>
Particle Shedding	<i>Meets Cleanliness per USP <788> for Particulates in Injectables</i>
Extractable with water	<i>Extractable passes within limit as specified by USP <661></i>
TOC/ Conductivity	<i>Meets the USP <643> for Total Organic Carbon Meets the USP <645> for Water Conductivity</i>

- Manufactured in an ISO Class 8 Cleanroom Environment
- Complete Qualification Guide Available
- Critical raw material used for manufacturing are Compliant with FDA Indirect Food Additive requirements cited in 21 CFR 177.1520 & 21 CFR 177.2440
- Comply with USP <88> Reactivity Test for Class VI plastics
- Wide Chemical Compatibility
- 100% Integrity Tested

TECHNICAL SPECIFICATIONS

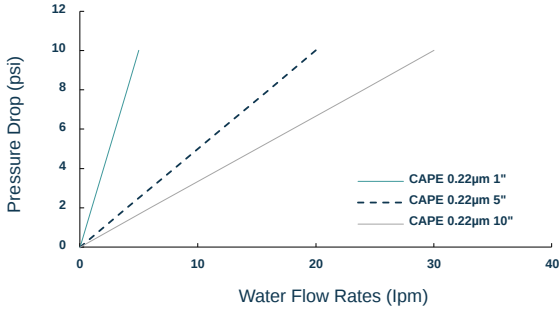


CONSTRUCTION MATERIALS

Filter Media: Polyethersulfone PES

Supporting Media: Polyester

Core & Cage: Polypropylene



MAXIMUM OPERATING DIFFERENTIAL PRESSURE AND TEMPERATURE

Max Temp 80 °C @ ≤ 2 Kg/cm²

Max Pressure 3.5 Kg/cm² @ 25 °C for forward
0.7 Kg/cm² @ 25 °C for reverse

Autoclavable 30 autoclave cycles of 30 minutes at 121 °C

INTEGRITY TEST DATA

Bubble Point:

0.10µm: ≥ 1931 mbar (28 psi) (70% IPA/ water wetted)

0.22µm: ≥ 3447 mbar (50 psi) (with water wetted)

0.45µm: ≥ 2206 mbar (32 psi) (with water wetted)

Max Air Diffusion Flow (for 10" Capsule):

0.10µm: ≤ 30mL/min @3447 mbar (50 psi) (with water wetted)

0.22µm: ≤ 30 mL/min @ 2551 mbar (37 psi)

0.45µm: ≤ 35 mL/min @ 1655 mbar (24 psi)

Microbial Retention:

0.22µm: LRV > 7 for *Brevundimonas diminuta*

0.45µm: LRV > 7 for *Serratia marcescens*

ORDERING INFORMATION CODES:

Type		Size			Pore Size		I/O Connection		Bell		
Type	Code	Length	EFA	Code	Micron	Code	Connection	Code		Code	
Single Layer	CAPE	1"	0.02m ²	A	0.10 µm	010	1/4" SHB	01	Yes	BY	
CAPE 0.8µm upstream	CAPER2	2"	0.05m ²	B	0.22 µm	020	1/4" MNPT	02	No	BN	
		5"	0.10m ²	C	0.45 µm	045	1/4" BSP	03			
CAPE 0.65µm upstream	CAPER1	8"	0.20m ²	D			1/4" BSP (O-ring)	04	Sterilization Code		
		10"	0.60m ²	E			1/2" MNPT	05			
CAPE 0.45µm upstream	CAPEQ						1/2" Hose barb	06	ETO	SE	
							1.5" Sanitary Flange	07	Gamma	SG	
								3/4" Sanitary Flange	08	Non-sterile	SN
								Quick connector	09	Non-sterile (Gamma Sterilizable)	SN-G
							1/2" Single step hose barb	10			

EXAMPLE: CAPEA020101BYSE



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