

# AseptiCap KSO- $\gamma$ Polyethersulfone Membrane Capsule Filters

# Polyethersulfone Membrane Capsule Filters

**mdi** AseptiCap KSO-  $\gamma$  are gamma sterilizable polyethersulfone membrane capsule filters offering wide pH (1-14) compatibility. These filters are specially designed for alkaline fluid streams in biopharma manufacturing processes, with added advantage of high throughputs and low hold up volumes.

These capsule filters offer serial filtration incorporating a large pore size upstream membrane to protect the downstream membrane for enhanced throughputs.

AseptiCap KSO- $\gamma$  are validated for use in pharmaceutical and bio-pharmaceutical applications.

#### **Application**

- Scale up of new drug delivery systems
- Bioburden removal from cell harvest supernatants
- Sterilization of bio-pharmaceuticals such as vaccines and therapeutic proteins
- Sterilization of oncology drugs
- Sterilization of buffers

#### **Material of Construction**

Housing : Polypropylene
Filter Media : Polyethersulfone
Membrane

Membrane

Support Layer: Polypropylene



# **Special Features**

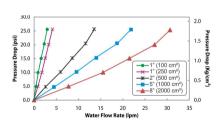
- ♦ Wide pH compatibility (1-14)
- ♦ Absolute retention
- Low protein binding
- ♦ Light weight and self supporting
- ◆ Low hold up volume
- Very high flow rates
- ♦ 100% Integrity tested
- Total traceability

# **Integrity Test Data**

#### Water Wetted Bubble Point

Pore Size	psi	Kg/cm²				
0.2 μm	≥ 50	3.52				
0.45 μm	≥ 30	2.11				

# Typical Water Flow Rate : 0.2 µm Capsule Filter



#### Microbially Validated as per ASTM F 838-05

Complies with USFDA 21 CFR 210.3 (b) (6)

Meets and Exceeds USFDA 21 CFR 177.1520

#### **Specification**

Maximum Differential Pressure 4 Kg/cm<sup>2</sup> @ 30 °C

Maximum Operating Temperature 80  $^{\circ}$ C @  $\leq$  2 Kg/cm<sup>2</sup>

#### Sterilization

**By Irradiation:** Gamma Irradiatable upto 50 kGy

**By Autocalve:** Autoclavable at 125° C for 30 minutes, 1 cycle after gamma Irradiation. Cannot be in-line steam sterilized.

#### **Bacterial Retention**

0.2μm: LRV > 7 for *B. diminuta* ATCC 19146 per cm² of filter area 0.45μm: LRV > 7 for *S. marcescens* ATCC 14756 per cm² of filter area

#### Oxidizable Matter:

Passes test as per USP <1231>

#### Fiber Release:

Complies with USFDA CFR Title 21, 210.3 (b) (6)

### Particle Release:

The filtrate complies with USP <788> test for particulate matter in injections

#### Biosafety:

Passes the Biological Reactivity tests for Class VI plastics as per USP <88>

# TOC (Total Organic Carbon)

Meets the WFI requirements of USP <643> for Total Organic Carbon after a 3 liter WFI flush.

### Conductivity

\*\*\*\*3/16" hose barb end connection is available in - 1" and 2" capsule filters as inlet and outlet

5" as outlet only

Meets the WFI requirements of USP <645> for Conductivity after a 3 liter WFI flush.

# **Ordering Information**

Туре		Size		Pore Size		Inlet/Outlet		Radiation Sterilizable		х	Sterility		Pack Size		
	Code		EFA	Code		Code		Code		Code			Code		Code
AseptiCap KSO-γ (0.45μm Upstream)	DKOX	X 1"	100 cm <sup>2</sup>	31	0.2µm	01	1/4" SHB	Α	Yes	R		Non-Sterile	1	1	01
	DROX		250 cm <sup>2</sup>	51	0.45 µm*	02	1/2" Hose Barb	D	No****	Х		NOII-Sterile	'		
AseptiCap KSO-γ (0.8μm Upstream)		2"	500 cm <sup>2</sup>	52		•	11/2 Sanitary Flange	E				Gamma			
	DKO5	5"	1000 cm <sup>2</sup>	53			3/4" Sanitary Flange	S				Sterile	3		
		8"	2000 cm <sup>2</sup>	57			Quick Connector	J	*0.45um p	ore size is	available with	0.8µm upstrea	m only	•	
					•		Single Step 1/2" Hose Barb**	Q	Q **Single Step 1/2" Hose Barb and 3/8" Hose Barb end connections are not available 1" capsule filters ***Male Luer Slip end connections is available only in 1" capsule filter as out						re not
							Female Luer Lock	U							r as outlet
							Mala Lora Olivett	14/							3000

Example:

DKOX 52 01 EE R X 1 01

BE R X 1 01

Male Luer Slip\*\*\*

3/16" Hose Barb\*\*

3/8" Hose Barb\*

W

Ν

DST DKOXRXX1510C