

mdi Polyethersulfone (PES) membrane mini cartridge filters type *AseptiSure HSR* are designed to withstand high pressure differential upto 0.3 Kg/cm² (5 psi) at high steam sterilization temperatures of up to 135 °C.

These filters with Polyethersulfone membrane and Polypropylene support layers offer pH compatibility from 1 to 14, and are thus ideal for use with acidic as well as alkaline solutions.

mdi *AseptiSure HSR* Mini Cartridge filters are validated for key performance parameters such as retention efficiency, chemical compatibility, extractables, heat stability and flow rates.



Specifications

Pore Size Rating

0.2 µm, 0.45 µm

Microbial Retention

0.2µm: LRV>7 for *B.diminuta*(ATCC 19146) per cm²

0.45µm:LRV>7 for *S.marcescens* (ATCC 19146) per cm²

Sterilization

- 25 Autoclave/In-line steam sterilization cycles at 135 °C for 30 min., Δp=5 psi (0.3kg/cm²)

Maximum Differential Pressure

50 psi (3.5Kg/cm²) @ 25 °C

Maximum Operating Temperature

80 °C @ ≤ 30psi (2Kg/cm²)

Reverse Pressure

≤ 10 psi (0.7Kg/cm²) @ 25 °C

Bacterial Endotoxin

Aqueous extracts exhibit < 0.25 EU/ml as established by Limulus Amebocyte Lysate (LAL) Test as per USP <85>

Biosafety

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

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

TOC (Total Organic Carbon)

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

Conductivity

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

Material of Construction

Core and Sleeve : Polypropylene

Filter Membrane : Polyethersulfone

Support Layers : Polypropylene

Integrity Test Data (Water Wetted)

0.2µm rated cartridge

Bubble Point	≥ 50 psi (3.51 Kg/cm ²)
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0.45µm rated cartridge

Bubble Point	≥ 30 psi (2.11 Kg/cm ²)
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Special Features

- Low protein binding
- High throughputs
- Long service life
- Non-toxic material of construction
- Heat sealed, no glues or adhesives
- Each filter comes with an individual certificate of quality
- Total traceability: Unique Identification number is laser etched on each filter

Application

Sterile filtration of:

- Proteinaceous liquids where minimum protein loss is desired, such as sera, culture soups and recombinant proteins, antibodies etc
- Cell culture media
- Buffers
- Small volume parenterals
- Large volume parenterals

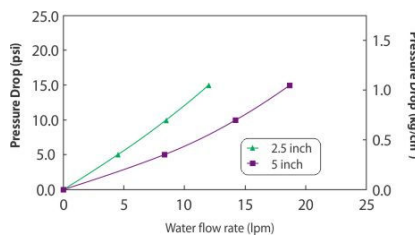
Microbially Validated as per ASTM F 838-05

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

Meets and Exceeds USFDA 21 CFR 177.1520

Water Flow rate

0.2µm AseptiSure HSR



Ordering Information

Type	Size		Pore Size		Adapter		Elastomer		Sterility		Pack Size	
	Code	Size & EFA	Code	Code	Code	Code	Code	Code	Code	Code	Code	
<i>AseptiSure HSR</i> (with 0.45µm upstream)	CHRX	2.5" (1000cm ²)	50	0.2 µm	01	4463	E0	Silicone	SS	Non Sterile	1	1 01
<i>AseptiSure HSR</i> (with 0.65µm upstream)	CHR3	5" (2000cm ²)	53	*0.45 µm	02	4463B	H0	*0.45µm cartridge filter are available with 0.65µm or 0.8µm upstream layer only **G0 adapter code is not available with any elastomer. Please mention XX in place of elastomer code while ordering ***Adapter code F0 is available only in 5" cartridge filters				
<i>AseptiSure HSR</i> (with 0.8µm upstream)	CHR5					4440	U0					
						Seal-K	G0**					
						Seal-O	F0***					
						Seal-M	J0					
EXAMPLE	CHRX	50		01		E0		SS		1		01

DST CHRXX1739C