Super-Dura® Filter Cartridges

Hydrophilic PTFE Membrane · Sterile Liquid Filter



Super-Dura® Filter Cartridges are designed for the majority of pharmaceutical liquids, but especially for solvent-containing liquids and ophthalmic solutions. These filters are composed of a hydrophilic PTFE membrane which provides excellent chemical and heat tolerance.

Features and Benefits

- Hydrophilic PTFE membrane which requires no pre-wetting
- Excellent chemical compatibility especially for solvent-containing liquids
- Minimal preservative binding in ophthalmic solutions
- · Clean membrane with very low gravimetric extractable

Quality Standards

- Bacterial quantitative retention of 10⁷ CFU/cm² Brevundimonas Diminuta(ATCC 19146) according to ASTM F838 methodology .
- 100% Integrity testing in manufacturing .
- · Each filter is fully traceable with unique serial number .
- Manufactured in a facility which adheres to ISO 9001:2015 Practices .
- · Full Regulatory Compliance with following:
- Bacterial Endotoxin : Aqueous extraction of autocalved filter contains < 0.25 EU/ml as determined by Limulus Amebcyte Lysate (LAL),USP<85>.
- •Non-fiber Releasing :Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
- •TOC/Conductivity at 25 °C: Autoclaved filter effluent meet the USP<643> for Total Organic Carbon and USP<645> for
- Water Conductivity per WFI requirements after a UPW flush of specified volume.
- •Indirect Food Additive: All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182, and EU framework regulation [1935/2004/EC].

Typical Application

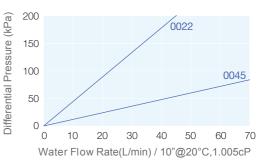
- Antibiotics
- LVP & SVP
- · Large Batch Solutions
- · Ophthalmic Solutions
- · Disinfectants and Sanitizing Agents



Materials of Construction

Filter Media	SLHPF Single-Layer Hydrophilic PTFE Membrane		
	DLHPF	Double-Layer Hydrophilic PTFE Membrane	
Support	Polypropylene		
Core/Cage/End Caps	Polypropylene		

Flow Rate Characteristics



Operating Conditions

Max. Operating Pressure	6.9 bar (100 psi) at 25 °C 4.0 bar (58 psi) at 60 °C 2.4 bar (35 psi) at 80 °C		
Max. Differential Pressure	Forward 6.9 bar (100 psi) at 25 °C 4.0 bar (58 psi) at 60 °C 2.4 bar (35 psi) at 80 °C Reverse 3.0 bar (44 psi) at 25 °C 1.0 bar (15 psi) at 80 °C		
Effective Filtration Area	2.4bar/90°C _(forward) 0.65m² / Ф 69-10 inch		

Sterilization

Inline Steam Sterilization	up to 10 cycles (135°C for 30min< 0.3 bar per cycle),SLHPF
	up to 35 cycles (135°C for 30min< 0.3 bar per cycle),DLHPF
Autoclave	up to 120 cycles (130°C for 30min per cycle)

Integrity Test Data

Bubble Point	BP: \geq 0.32 MPa(water), DLHPF(0.22 μ m)
Diffusion Flow	DF: ≤ 30 ml/min/10"@ 0.22 MPa, DLHPF(0.22 µm)

Ordering Infomation

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SLHPF		End Cap			-P
[Single-Layer]	0022 =0.22μm	HSF=226 /Fin (PBT Insert)	05 = 5"	S =Silicone	
	0045 =0.45μm	HSC=226 /Flat (PBT Insert)	10 =10"	E =EPDM	
	0100 = $1.0 \mu m$	HTF=222 /Fin (PBT Insert)	20 =20"	V =Viton	
		HTC=222 /Flat (PBT Insert)	30 =30"	P =PFA/Viton	
		DOE=Double Open End	40 =40"		
DLHPF	2222 =0.22+0.22µm				
[Double-Layer]	4545 =0.45+0.45μm				