

Hall Pyke



Membrane Filtration

Superdura SLHPF
Hydrophillic PTFE

The SMART choice for filtration

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 10^7 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 autoclaved filter contains <0.25 EU/ml as determined by Limulus Amebocyte 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).
 - Component Material Toxicity:
 - Meet the requirement of USP <87> In Vitro Cytotoxicity Test;
 - Meet the Criteria of USP<88> Biological Reactivity Test for Class VI-121°C plastics.
 - 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.
 - Particle Shedding: Autoclaved filter effluent meet the USP<788>for large volume Injections.
 - 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

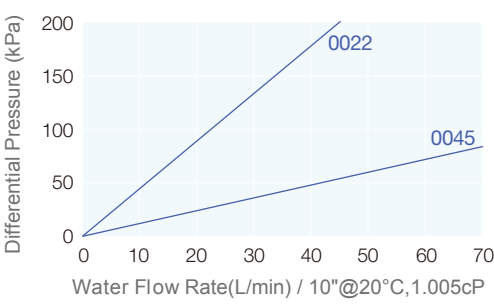
- Antibiotics
- LVP & SVP
- Large Batch Solutions
- Ophthalmic Solutions
- Disinfectants and Sanitizing Agents



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	0.65m ² / Φ 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: ≥ 0.32 MPa (water), DLHPF(0.22 μm)
Diffusion Flow	DF: ≤ 30 ml/min/10" @ 0.22 MPa, DLHPF(0.22 μm)

Ordering Information

SLHPF	Removal Ratings	End Cap	Nominal Length	Seal Material	-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 = 1.0μm	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				

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