



SUPER-DURA® FILTER CARTRIDGES

Hydrophilic PTFE Membrane Sterile Liquid Filters

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HYDROPHILIC PTFE MEMBRANE FILTERS DESIGNED FOR THE MAJORITY OF PHARMACEUTICAL LIQUIDS

Super-Dura Filter Cartridges are designed for the majority of pharmaceutical liquids. These filters are composed of a hydrophilic PTFE membrane which provides excellent chemical and heat tolerance.

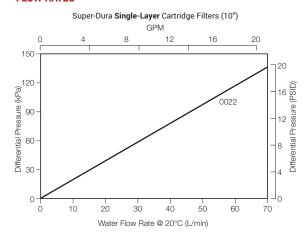
FEATURE	BENEFIT	
Hydrophilic PTFE membrane	Requires no pre-wetting	
	Excellent chemical compatibility especially for solvent-containing liquids	
	Minimal preservative binding in ophthalmic solutions	
Ultra clean	Clean membrane with very low gravimetric extractable	-
Designed for aqueous liquids	Install into housing dry to speed up filter changes and minimize downtime	-
QUALITY STANDARDS		
Quality Assurance	These products are manufactured in a facility which adheres to ISO 9001:2015 Practices. 100% Integrity tested and Lot traceable.	
Bacterial Retention	Retention of 10 ⁷ cfu/cm ² Brevundimonas diminuta (ATCC® 19146) according to ASTM F838	accretions attitude
TOC / Conductivity at 25°C	Autoclaved filter effluent meets the USP <643> for Total Organic Carbon and USP <645> for Water Conductivity per WFI requirements after a UPW flush	
Particle Shedding	Autoclaved filter effluent meets the requirements in USP <788> for large volume parenterals/injections	
Non-Fiber Releasing	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6)	
Bacterial Endotoxin	Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus; Amebocyte Lysate (LAL), USP <85>	Typical Applications
USP <87> Cytotoxicity	Meet the requirement of USP <87> In Vitro Cytotoxicity Test	
USP <88> Biological Toxicity	Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121°C plastics.	
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].	
SPECIFICATIONS		
Filter media	SLHPF: Single-layer hydrophilic PTFE membrane DLHPF: Double-layer hydrophilic PTFE membrane	
Supports/core/cage/end caps	Polypropylene	_

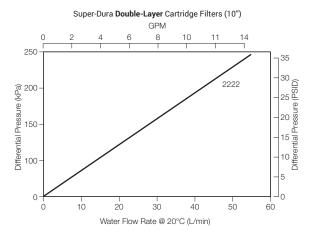
Effective filtration area

0.65m² (7.0 ft²)/ Ø69-10 inch

0-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM	
O-ring internal insert	PBT	
Cartridge diameter	69 mm (2.7 in.)	
Max. Operating pressure	0.69 MPa (6.9 bar, 100 psi) at 25°C; 0.40 MPa (4.0 bar, 58 psi) at 60°C; 0.24 MPa (2.4 bar, 35 psi) at 80°C	
Max. Differential pressure	Forward: 0.69 MPa (6.9 bar, 100 psi) at 25°C; 0.40 MPa (4.0 bar, 58 psi) at 60°C; 0.24 MPa (2.4 bar, 35 psi) at 80°C	
	Reverse: 0.3 MPa (3.0 bar, 44 psi) at 25°C; 0.1 MPa (1.0 bar, 15 psi) at 80°C	
Bubble point	SLHPF: ≥ 0.3 MPa (3.0 bar, 44 psi) wetted with water of 20°C DLHPF: ≥ 0.32 MPa (3.2 bar, 46 psi) wetted with water of 20°C	
Steam sterilization	SLHPF: up to 20 cycles for 30 minutes at 135°C at Max.Differential Pressure of 0.3 bar (4.3 psi) DLHPF: up to 35 cycles for 30 minutes at 135°C at Max.Differential Pressure of 0.3 bar (4.3 psi)	
Autoclave	up to 120 cycles for 30 minutes at 130°C	

FLOW RATES





ORDERING INFORMATION

EXAMPLE: **SLHPF0045HTC10S-P** = Single layer 0.45 μ m, 222/Flat, 10" filter with silicone seals

