Duredunty® Filter Cartridges

Double-layer PES Membrane-Sterile Liquid Filter

Duredunty[®] Filter Cartridges use a unique double-layer PES membrane which provides excellent reliability in filtration and sterilization. They are designed for the filtration of a broad range of pharmaceutical products and the removal of particles, cysts, oocysts and bacteria in aqueous filtration application, while providing superior flow rates and high particle removal efficiency when compared to other sterilizing grade filter cartridges.

Features and Benefits

- Double-layer hydrophilic PES membrane which requires no pre-wetting
- · Asymmetric pre-filter layer provides longer service life and lower filtration cost
- Broad chemical compatibility (pH 1-14)
- · Provides 10x the safety when compared to normal PES filters
- · Design allows for multiple autoclave cycles (up to 30) and extended use

Quality Standards

- Integrity Test correlates to ASTM F838-05 Bacterial Challenge Test (BCT)
- · Each filter is individually Integrity Tested prior to leaving the factory
- · Each filter is Fully Traceable with a unique serial number
- Designed, developed and manufactured in compliance with ISO9001
- Full Regulatory Compliance with the following:
- · 21CFR.210.3(b)(5)(6), 211.72 for Non-Fiber Release · Endotoxins: <0.25EU/ml/10inch filter · USP <88> Plastic Class VI-121°C · FDA 21 CFR177-182 & EU 1935/2004/EC

Typical Application

- Biological Vaccines
- Blood Products
- LVP and SVP
- · Lyophilization Freeze-dried Powder
- Ophthalmic Solutions
- Sterile API



Materials of Construction

Filter Media	Double-Layer PES Membrane (Asymmetric PES + Symmetric PES
Cage/Support	Polypropylene
Core/End Cap	Polypropylene

Operating Conditions

Maximum Temperature	90°C
Max.Differential Pressure	4.0 bar / 21°C (forward) 2.4 bar / 90°C (forward) 2.0 bar / 21°C (reverse)
Effective Filtration Area	0.6m ² / 68-10 inch

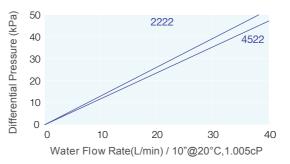
Sterilization

Inline Steam Sterilization	up to 30 cycles (135°C for 30m
Autoclave	up to 30 cycles (130°C for 30mi

Integrity Test Data

Bubble Point	≥0.34 MPa (water) ,0.45+0.22
Diffusion Flow	≤25 ml/min/10" @ 0.275MPa

Flow Rate Characteristics



Ordering Information

2210=0.22µm+0.1µm 2222=0.22um+0.22um 4522=0.45µm+0.22µm 4545=0.45µm+0.45um 6545=0.65µm+0.45µm

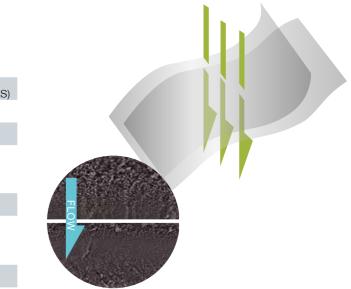
HSF=226 /Fin (F HSC=226 /Flat HTF=222 /Fin (F HTC=222 /Flat DOE=Double O

Distributed by



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nin@30kPa per cycle)

nin per cycle)

2µm

a (water),0.45+0.22µm

Cap	Nominal Length		-P
(PBT Insert)	05 =5"	S =Silicone	
(PBT Insert)	10 =10"	E =EPDM	
(PBT Insert)	20 =20"	V =Viton	
(PBT Insert)	30 =30"		
)pen End	40 =40"		