

PES Membrane Filter Cartridge For Water Filtration 0.1μM 20"

Our Product Introduction

for more products please visit us on wechanfib.com

Basic Information

- Place of Origin: PRC
- Brand Name: WECHANGE
- Model Number: WF-PL-S-0010-20-E-S
- Minimum Order Quantity: 100
- Price: Negotiable
- Packaging Details: PE bag + box
- Delivery Time: 21-30
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram, Paypal
- Supply Ability: 5000pc/month



Product Specification

- OD: 69mm
- Length: 20"
- Filtration Rating: 0.1μm
- Sterilization Cycle: 121 30min ≥15 Times
- MOQ: 100 Piece
- Membrane Material: PES
- Shell & Core Material: PP
- Highlight: pes membrane filter cartridge,
0.1μM pes membrane filter cartridge,
20" pes filter cartridge

Product Description

PES Membrane Filter Cartridge For Water Filtration 0.1μM 20"

Description of Water filtration

WECHANFIB PES Nanofiber Membrane Filter Cartridge use a high-performance, pleated PES membrane. The ideal choice for the filtration in the bio-pharmaceutical, food and beverage industry. PES filter cartridges are especially designed for effective bioburden control and reliable removal of particles from a broad range of fluid streams. They provide the finest, most efficient and reliable performance for critical prefiltration applications.

Application of Water filtration

Microelectronics chemical solution pre-filtration;
Biological products sterile filtration;
Buffer, culture & medium sterile filtration;
Ultra-pure water filtration of LCD manufacturing process;
High-pressure water filtration;
Clarified cell culture harvest.
Final filtration of beverage;

Features of Water filtration

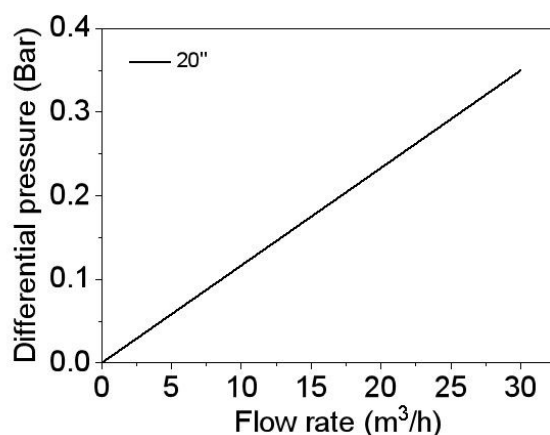
High filtration performance;
Excellent throughputs;
Chemical et Mechanical Stability;
Microbial stability;
100,000-level clean room manufactured;
100% integrity test for every filter cartridge before delivery.

Operating Characteristic of Water filtration

Our Product Introduction

Outer Diameter	2.7"/69mm
Length	5"/127mm 10"/254mm 20"/508mm 30"/762mm 40"/1016mm
Pore Size	0.1, 0.2, 0.45, 0.65, 0.8, 1.2, 3.0µm
Max. Operation Temperature	80
Max. Operation Pressure	Forward direction: 0.58 MPa(25±2) 0.24MPa(80±2) *It not recommend for reverse use
Filtration Areas	5"≥0.34m²; 10"≥0.68m²; 20"≥1.36m² 30"≥2.04m²; 40"≥2.72m²
Integrity Testing	Bubble point≥60KPa 50KPa pressure,diffusion flow 10 ml/min Anhydrous ethanol was used as the wetting solution at 25°C, and compressed air was used to test the bubble point values against the diffusion flows.
Sterilization	30 times (121.4 ,30 min offline high-pressure steam sterilization)
Bacterial Retention Capacity	Minimum retention rate 10 ⁷ CFU/cm² The product was tested against <i>Serratia marcescens</i> (ATCC14756) using ASTM F838 method.
Extractable Substance	50 mg/m² After high-pressure steam sterilization(121.4 ,60 min), 25 ±2 immersing in pure water for 24h
Biosafety	The endotoxin level 0.25 EU/ml, and the extraction solution has no acute toxicity
Cleanliness	No fibers or other visible foreign objects were detected in the filtered liquid. *Lamp test according to the Chinese Pharmacopoeia 2020 edition <0904>

Flow Rate of Water filtration



Material of Structure of Water filtration

Filter Media	PES(Polyether-sulfone)
Deflector Layer	Polypropylene
Enclosures/Ports	High Temperature Resistance Polypropylene
Adapter	Polypropylene
Seals	Silicone/EPDM

Naming Regulations of Water filtration

WF	PL	S	0500	10	A	S
Trademark	Form	Filtration Materials	Accuracy	length	Adapter	O ring
WECHANFIB	PLEATE D	PES	0010 0.10µm	5 5"	A 222/ FIN	S Silicone
			0022 0.22µm	10 10"	B 222/Flat End Cap	E EPDM
			0045 0.45µm	20 20"	C 226/ FIN	V FKM
			0065 0.65µm	30 30"	D 226/ Flat End Cap	T PTFE
			0080 0.8µm	40 40"	E DOE	

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WECHANGE TECHNOLOGY CO.,LTD

We-Change Makes Your Life better

Wechange Pleated Filter Cartridge Products List

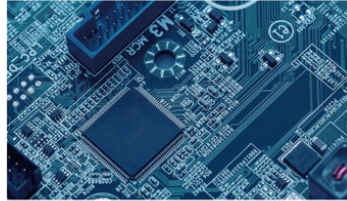
Membrane Material	Type No.	Application	Pore Size µm	Diameter mm	Length inch	Adaptor
PES	WF-PL-S-0010-5-*		0.1	69	5"	
PES	WF-PL-S-0010-10-*		0.1	69	10"	
PES	WF-PL-S-0010-20-*		0.1	69	20"	
PES	WF-PL-S-0010-30-*		0.1	69	30"	
PES	WF-PL-S-0010-40-*		0.1	69	40"	
PES	WF-PL-S-0022-5-*		0.22	69	5"	
PES	WF-PL-S-0022-10-*		0.22	69	10"	
PES	WF-PL-S-0022-20-*		0.22	69	20"	
PES	WF-PL-S-0022-30-*		0.22	69	30"	
PES	WF-PL-S-0022-40-*		0.22	69	40"	
PES	WF-PL-S-0045-5-*		0.45	69	5"	
PES	WF-PL-S-0045-10-*		0.45	69	10"	
PES	WF-PL-S-0045-20-*		0.45	69	20"	
PES	WF-PL-S-0045-30-*	Beverage Final	0.45	69	30"	
PES	WF-PL-S-0045-40-*	Filtration,	0.45	69	40"	
PES	WF-PL-S-0065-5-*	Microelectronics	0.65	69	5"	
PES	WF-PL-S-0065-10-*	Liquid Filtration,	0.65	69	10"	
PES	WF-PL-S-0065-20-*	Liquid Sterile	0.65	69	20"	
PES	WF-PL-S-0065-30-*	Filtration, Buffer &	0.65	69	30"	
PES	WF-PL-S-0065-40-*	Culture Medium	0.65	69	40"	
PES	WF-PL-S-0080-5-*	Filtration, Biological Products Sterile	0.8	69	5"	

The "" Indicate type of
CONNECTOR &
SEAL RING, they're
customi-zable and
have below option
codes:
1.**Connector**:
A 222/Fin
B 222/Flat End Cap
C 226/Fin
D 226/Flat End Cap
E DOE
2.**Sealing Ring**:
S Silicone

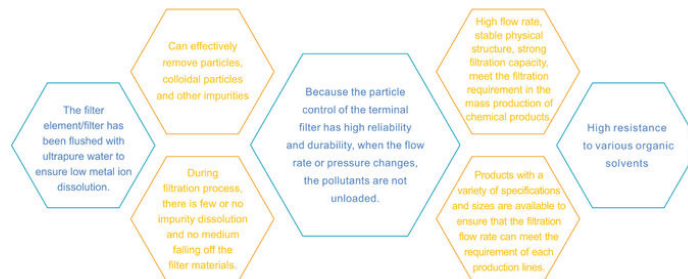
PES	WF-PL-S-0080-10-*	Filtration.	0.8	69	10"	E	EDPM(Ethylene
PES	WF-PL-S-0080-20-*		0.8	69	20"		Propylene Diene
PES	WF-PL-S-0080-30-*		0.8	69	30"		Monomer)
PES	WF-PL-S-0080-40-*		0.8	69	40"	V	FKM
PES	WF-PL-S-0120-5-*		1.2	69	5"		(Fluororubber)
PES	WF-PL-S-0120-10-*		1.2	69	10"	T	PTFE(Polytetra-
PES	WF-PL-S-0120-20-*		1.2	69	20"		fluoroethylene)
PES	WF-PL-S-0120-30-*		1.2	69	30"		
PES	WF-PL-S-0120-40-*		1.2	69	40"		
PES	WF-PL-S-0300-5-*		3	69	5"		
PES	WF-PL-S-0300-10-*		3	69	10"		
PES	WF-PL-S-0300-20-*		3	69	20"		
PES	WF-PL-S-0300-30-*		3	69	30"		
PES	WF-PL-S-0300-40-*		3	69	40"		

MICROELECTRONICS SERIES

Various liquids and gases are widely used in semiconductor manufacturing. The content of particulate impurities in these liquids and gases has a vital impact on the yield of the final product. WECHANGE FEIBO filter elements/ filters have been successfully applied in a-Si TFT-LTD, LTPS TFT-LCD, AMOLED panel production lines.



Application Requirements



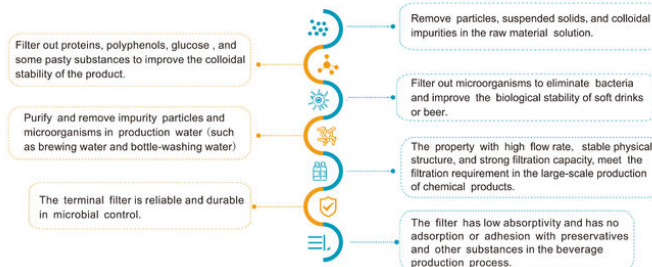
Application Field	WECHANGE Products	Similar Product Description
Liquid Filtration in the Flat-panel Display Industry	WF-PL-M-P-0500-40-E-E	Filter element with large size and high flow rate, suitable for applications requiring high flow rate
	WF-PL-P-0100-40-E-E	PP membrane pleated filter element, high pollutant retention capability, high flow rate, excellent chemical compatibility
	WF-PL-S-0045-40-E-E	PES membrane pleated filter, high rejection rate, each filter element has been integrity tested during manufacturing
	WF-NL-MNPT-10-2.5	PO(EVOH), PTFE pleated membrane or capsule filter, excellent chemical compatibility, each filter element has been integrity tested during manufacturing
Ultrapure Water/ Deionized Water Filtration	WF-PL-0020-30-E-E	Hydrophilic PO(EVOH)/PES membrane filter element, Low impurity dissolution, High flux, economy, high efficiency
Ventilation/gases Filtration	WF-NL-F-MNPT-45-10	Hydrophobic PO(EVOH), PTFE pleated membrane or capsule filter, autoclaving, integrity testing

FOOD AND BEVERAGE SERIES



Filtration of food and beverage refers to the key process in the production of soft drinks and beer. A suitable filtration system must be able to filter out particles, suspended solid, colloids and other impurities in the raw material solution, meanwhile, the filtration process has minimal effect on the appearance, taste, nutrition composition, and stability of soft drink and beer.

Application Requirements



Application Field	WECHANGE Recommended Products	Similar Product Description
Soft Drinks/ Beer Filtration	WF-MB-P-0500-40	PP melt-blown depth filter element, economy, for pre-filtration
	WF-PL-P-0100-40-E-E	PP pleated filter element, economy, high efficiency, for pre-filtration
	WF-PL-P-0500-40-E-E (Contact customer service for details)	PP multi-layer pleated filter element, multi-layer filter membrane design, suitable for filtration of viscous and colloidal liquids
	WF-PL-0010-30-E-E	Asymmetric hydrophilic PO, PTFE, PES membrane filter element, high flux, long service life, suitable for terminal sterilization filtration of wine, draught beer, etc.
	WF-PL-0045-30-E-E	Hydrophilic PO, PTFE, PES membrane filter element, Filtration and purification of production water, removal of impurity particles and microorganisms in water
Ventilation/gases Filtration	WF-NL-F-MNPT-45-10	Hydrophobic PO(EVOH), PTFE pleated membrane or capsule filter element, autoclaving, integrity testing

ENERGY AND CHEMICAL INDUSTRY SERIES

Energy and chemical industry filters can meet the filtration requirements during the production or use of chemical products (such as inkjet inks, reagents, chemical fibers, and textiles, etc.). Energy and chemical industry filters have excellent impurity filtering ability and longer service life which produces chemical products with high quality, high cleanliness, and no impurity particles, which can avoid the blockage of production or application equipment (such as printers, chemical fiber textile equipment). Therefore, when the flow or pressure changes, the pollutants will not be unloaded. WECHANGE FEIBO filter elements/filters have been successfully used in high-purity chemicals, chemical fibers, and purified textile production lines.



Application Requirements

01	02	03	04
Remove granular gels, agglomerates, and impurity particles in chemical products while retaining effective ingredients such as colorants.	During filtration process, there is few or no impurity dissolution and no medium falling off the filter materials.	Because the particle control of the terminal filter has high reliability and durability, when the flow rate or pressure changes, the pollutants are not unloaded.	High flow rate, stable physical structure, strong filtration capacity, meet the filtration requirement in the mass production of chemical products.

Application Field	WECHANGE Recommended Products	Similar Product Description
Membrane Ink Filtration	WF-PL-P-0500-40-E-E	PP pleated membrane or capsule filter element, pre-filtered
	WF-NL-MNPT-45-2.5	PO(EVOH), PTFE, PES pleated membrane or capsule filter element, pre-filtered
	WF-NL-MNPT-10-2.5	PO(EVOH), PTFE, PES pleated membrane or capsule filter element, terminal filtration, effectively improve the purity of ink
High Purity Liquid Filtration	WF-PL-P-0100-40-E-E	PP pleated membrane or capsule filter element, pre-filtered
	WF-NL-F-MNPT-10-10	PO(EVOH), PTFE, PES pleated membrane or capsule filter element, terminal filtration, effectively improve the purity of water and organic solvent
Chemical Fiber De lustrant (TiO ₂) Filtration	WF-PL-P-0500-40-E-E	PP pleated membrane or capsule filter element, pre-filtered
	WF-PL-0020-40-E-E	PO(EVOH), PTFE, PES pleated membrane or capsule filter element, terminal filtration, effectively improve the purity of chemical fiber delustrant

PES Membrane Filter Cartridge For Water Filtration 0.1µm/20"

General Description of Water filtration:

PES membrane filters are fabricated from polyether sulfone (PES) material, which is renowned for its outstanding thermal stability, chemical resistance, and solvent tolerance. This material enables the filters to maintain optimal performance in a variety of harsh industrial environments. They are characterized as high-performance, efficient, durable, and environmentally friendly filtration components. These filters find extensive application across numerous industries.

Application of Water filtration:

- 1.Cell culture media
- 2.Buffers
- 3.Clarified cell culture harvest
- 4.Biological vaccine
- 5.Liquid (LVP/SVP)

Features and Benefits of Water filtration:

- * Possesses excellent thermal stability, chemical stability, and solvent resistance, enabling it to maintain good performance in a variety of stringent industrial environments;
- * Features a high filtration precision, effectively removing suspended particles, microparticles, and bacteria, etc., from liquids;
- * Has good hydrophilicity, which allows the filter housing to achieve a high filtration speed and flux while ensuring the filtration precision;
- * Strict quality control system, complete production process flow;
- * Short delivery period;
- * Flexible payment method: T/T, L/C, West Union, Paypal;
- * Free technical support;
- * Other specific sizes can be customized;

Performance Specifications of Water filtration:

Dimensions(nominal):

OD	69mm
Length	10"(254mm),20"(508mm),30"(762mm),40"(1016mm)

Material of Construction:

Filter Media	Deflector layer	port	Enclosures/Ports	Seals Material
PES(polyether sulphone)	Polypropylene	Polypropylene	Polypropylene	Silastic/EPDM

Beer Clarification Filter Cartridge Performance:

Biosafety	All ingredients comply with USP (United States Pharmacopoeia) Level 6 plastic testing
Food Accessibility	All ingredients comply with GB 4806.7-2016
Endotoxin	≤0.25 EU/ml
Cleanliness	The product does not have any particles, fibers, or other foreign objects falling off
The Maximum Work Temperature	80 (ΔP 0.1Mpa)
Sterilization cycle	121 30min ≥15 times
PH	1-14
Suggesting Renewal Pressure Difference	1.5Bar



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