

PSG Series

Chung Ah PES Membrane Filter

Description

PSG pleated filter is made from a Polyethersulfone Polymer cast, offered in a wide range of pore size from 0.05~1.0um enabling our customers to meet the requirements of very different and specific applications. These range from pre or final filtration in the food & beverage industry, process water treatment in microelectronics to applications in the biotechnology and pharmaceutical industries. Configuration of all Polypropylene made by heat-adhesion technology warrants the lengthened All materials and components are acceptable to FDA List, 21 CFR for potable and edible liquid.

PSG 플리드필터는 폴리에테르설폰으로 제조되었으며 고객의 요구에 충족될 수 있게 0.05~1.0um까지 다양한 사양으로 제조되고 있습니다. 다양한 기공을 가지고 있는 당사 멤브레인은 식음료, 맥주, 와인, 미네랄 워터의 최종 여과장치 등 여러가지 공정에 사용이 적합합니다. 폴리에테르설폰 멤브레인은 국내 유일의 당사 최첨단 기술공정에 의해 제작되어 타 PES 필터보다 높은 오염물 포집량을 제공하며 완벽한 박테리아 제거능력을 제공하여 높은 신뢰성, 비용절감 및 작업시간을 단축시키는 필터입니다.



PLEATED FILTER

Features

- High flow rates and throughputs due to a highly asymmetric pore structure
- Inherently hydrophilic
- Low protein binding characteristics
- Good chemical compatibility
- Available in a wide range of pore sizes

Applications

- Filtration and sterilization of Food & Beverage, Beer, Wine
- Filtration sterilization of mineral water
- Filtration sterilization of water and products used in the cosmetic industry

Specification

Product code		PSG					
Grade		A5	01	02	04	06	10
Micron Rating(μm)		0.05	0.1	0.2	0.45	0.65	1.0
Media area(m²)		PSG : 7,500cm²					
Material	Support	Polypropylene					
	Media	Hydrophilic polyethersulfone membrane					
	Core/Cage/ End cap	Polypropylene					
	O-Ring	EPDM, Silicone, Viton, TEV (Teflon encapsulated viton)					
Max differential pressure		75psid at 25°C					
Dimen- sions	Length	125 / 250 / 500 / 750 (mm)					
	OD	PSG : 70mm					

100% Integrity Test (Diffusion Test, Bubble Point Test)

Adapter : Polypropylene with encapsulated stainless steel reinforcing ring

- > 식품적합성(Physicochemical Test) : 먹는물 수질 공정 기준, 중금속 검출 기준 만족
- > Hot Water : 88°C 190°F
- > Autoclave / In_line steaming 가능 : 131°C @ 30cycles (30min/cycle)
- > USP Class VI-121°C Plastics 요구수준 만족
- > 유럽 식품 접촉 용기 승인 기준인 EU10/2011의 요구 조건을 만족

Bubble Point test for 10 inch cartridge

Pore Size (μm)	0.05	0.1	0.2	0.45	0.6
Pressure	45psid	40psid	30.5psid	20.3psid	14psid
Fluid	DI water	DI water	DI water	DI water	DI water
Temperature	20 $\pm$ 2°C	20 $\pm$ 2°C	20 $\pm$ 2°C	20 $\pm$ 2°C	20 $\pm$ 2°C
Diffusion	≤ 50 ml/min	≤ 40 ml/min	≤ 30 ml/min	≤ 30 ml/min	≤ 30 ml/min
Bacteria Retention (LRV)	> 7	> 7	> 7	> 7	> 7
Bacteria	Acholeplasma laidlawii		Brevundimonas diminuta	Serratia marcescens	Saccharomyces cerevisiae

Water Flow rates per 10inch cartridge

