Pharmsteri[™] PES Cartridge Filter

PSTS series filters provide economical filtration for pharmaceutical and food and beverage applications

PSTS series cartridge filters join our portfolio of filtration solutions that help ensure reliable product processing. Constructed of polypropylene components and a hydrophilic polyethersulfone (PES) membrane, PharmsteriTM cartridge filters are economical and efficient for use in various pharmaceutical and food and beverage applications.

Our portfolio of Pharmsteri™ PES filters is 100% tested during manufacturing to ensuring high quality for sterility assurance. Various fitting sizes and types are available to provide design flexibility and versatility in a broad range of applications.



Allows high flow and low pressure drop, lowering cost of ownership.

APPLICATIONS

Pharmaceutical

- · Bioburden reduction of LVP/SVP
- · Sterile filtration for LVP/SVP/API
- Bulk chemicals

Food and Beverage

- Facility water
- Bottled water
- Soft drinks

FEATURES & BENEFITS

Various fitting sizes and types available	Fits most stainless-steel housings, providing design flexibility and versatility in a broad range of applications		
Optimized form factor	Allows high flow and low pressure drop, lowering cost of ownership		
All components meet USP <88> Class VI Plastics Test	Provides biosafety insurance and global regulatory compliance		



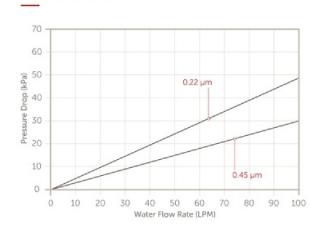


SPECIFICATIONS

Retention rating	Single-layer: 0.22, 0.45, Dual-layer: 0.22 + 0.45 μm			
Materials	Media	Polyethersulfone (PES)		
	Support	Polypropylene		
	Sleeve, core, top, and end caps	Polypropylene		
	O-ring	Silicone		
Sealing technology	Thermal bonding without adhesives			
Filtration area	\geq 0.6 m²/10" cartridge(Single-layer), \geq 0.53 m²/10" cartridge(Dual-layer)			
Integrity test	Minimum bubble point at 25°C (77°F)	≥3500 mbar		
	Maximum diffusion flow at 2800 mbar at 25°C (77°F)	5" cartridge: ≤15 mL/min		
		10" cartridge ≤30 mL/min		
Maximum operating conditions	Maximum forward differential pressure	4.2 bar @ 25°C (77°F), 2.0 bar @ 80°C (176°F)		
	Maximum operating temperature	80°C (176°F)		
Multiple sterilization cycles	20 cycles of steam-in-place (SIP) sterilization or autoclave, 30 min at 127°C (261°F)			
Endotoxin releasing	<0.25 EU/mL as determined by the LAL test			
TOC	<0.5 mg/L after a water flush of 11 L/10" cartridge			
Conductivity	≤1.3 µS/cm after water flush of 11 L/10" cartridge			
Particle release	Meets the requirements of WFI set by USP			
NVR	After autoclaving and 24-hours in 50% ethanol water with vibration (contact Entegris for details)			
Material toxicity	All components meet the requirements of the USP <88> Reactivity Test for Class VI Plastics			
Bacterial challenge test	Passed the bacterial challenge test using Brevundimonas diminuta (ATCC 19146) at a minimum challenge concentration $1x10^7$ CFU/cm² (0.22 $\mu m)$			
Indirect food additive	Meets the FDA Indirect Food Additive requirements cited in 21 CFR 177-182			
Food contact material	(EU) No. 1935/2004, (EU) No. 10/2011			
Quality	Manufactured in accordance with ISO 9001 and ISO 13485 certified quality management system			

ARGENPORE

PERFORMANCE DATA



DIMENSIONS

Code 0



Length	Code O Dimension A		
5"	148.0 mm (5.8")		
10"	273.0 mm (10.7")		
20"	517.5 mm (20.4")		
30"	762.0 mm (30.0")		
40"	1006.5 mm (39.6")		

Code 5



Length	Code 5 Dimension A			
5"	-			
10"	314.0 mm (12.4")			
20"	558.5 mm (22.0")			
30"	803.0 mm (31.6")			
40"	1047.5 mm (41.2")			

Code 6



Length	Code 6 Dimension A			
5"	150.5 mm (5.9")			
10"	276.0 mm (10.9")			
20"	520.0 mm (20.5")			
30"	764.5 mm (30.1")			
40"	1009.0 mm (39.7")			



DIMENSIONS

Code 7



Length	Code 7 Dimension A
5"	-
10"	316.5 mm (12.5")
20"	561.0 mm (22.1")
30"	805.5 mm (31.7")
40"	1050.0 mm (41.3")

ORDERING INFORMATION

PART NUMBER	CONNECTION	LENGTH	O-RING	RETENTION RATING
PSTS022005S1	Code 0	5"	Silicone	0.22 µm
PSTS022010S1	Code 0	10"	Silicone	0.22 µm
PSTS022020S1	Code 0	20"	Silicone	0.22 µm
PSTS022030S1	Code 0	30"	Silicone	0.22 µm
PSTS022040S1	Code 0	40"	Silicone	0.22 µm
PSTS022510S1	Code 5	10"	Silicone	0.22 μm
PSTS022520S1	Code 5	20"	Silicone	0.22 µm
PSTS022530S1	Code 5	30"	Silicone	0.22 µm
PSTS022540S1	Code 5	40"	Silicone	0.22 µm
PSTS022605S1	Code 6	5"	Silicone	0.22 μm
PSTS022610S1	Code 6	10"	Silicone	0.22 µm
PSTS022620S1	Code 6	20"	Silicone	0.22 µm
PSTS022630S1	Code 6	30"	Silicone	0.22 µm
PSTS022640S1	Code 6	40"	Silicone	0.22 µm
PSTS022710S1	Code 7	10"	Silicone	0.22 µm
PSTS022720S1	Code 7	20"	Silicone	0.22 µm
PSTS022730S1	Code 7	30"	Silicone	0.22 µm



ORDERING INFORMATION

PART NUMBER	CONNECTION	LENGTH	O-RING	RETENTION RATING
PSTS022740S1	Code 7	40"	Silicone	0.22 μm
PSTS045005S1	Code 0	5"	Silicone	0.45 μm
PSTS045010S1	Code 0	10"	Silicone	0.45 μm
PSTS045020S1	Code 0	20"	Silicone	0.45 μm
PSTS045030S1	Code 0	30*	Silicone	0.45 µm
PSTS045040S1	Code 0	40"	Silicone	0.45 µm
PSTS045510S1	Code 5	10"	Silicone	0.45 μm
PSTS045520S1	Code 5	20"	Silicone	0.45 µm
PSTS045530S1	Code 5	30"	Silicone	0.45 µm
PSTS045540S1	Code 5	40"	Silicone	0.45 µm
PSTS045605S1	Code 6	5"	Silicone	0.45 μm
PSTS045610S1	Code 6	10"	Silicone	0.45 μm
PSTS045620S1	Code 6	20"	Silicone	0.45 µm
PSTS045630S1	Code 6	30"	Silicone	0.45 µm
PSTS045640S1	Code 6	40"	Silicone	0.45 µm
PSTS045710S1	Code 7	10"	Silicone	0.45 µm
PSTS045720S1	Code 7	20"	Silicone	0.45 µm
PSTS045730S1	Code 7	30"	Silicone	0.45 µm
PSTS045740S1	Code 7	40"	Silicone	0.45 µm
PSTSD42605S1	Code 6	5"	Silicone	0.22+0.45 μm
STSD 42710S1	Code 7	10"	Silicone	0.22+0.45 μm
STSD42720S1	Code 7	20"	Silicone	0.22+0.45 μm



FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit <u>Argenpore.com</u> and select the <u>Contact Us</u> link to find the customer service center nearest you.

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