

STERYFLON Plus

- Intrinsecally Hydrophobic PTFE membrane
- High permeability versus gas
- Thermic cycles resistant
- Repeatedly steamable in situ or in autoclave
- Thermowelded construction
- FDA-listed materials per CFR21
- Bio-Safety per USP-Plastics
- Validation Guide available on request

STERYFLON Plus is a filter element designed, manufactured and submitted to severe controls for applications in processes where the effluent is required to be free from particellar and biological contaminants.

The expanded PTFE membrane, intrinsically hydrophobic, allows superior performances both in gas filtration and non-acqueos liquid filtration. Bio-tech pharmaceutical, electronic, food & beverage industries can roly on a product with high standard of quality suitable to solve contamination issues on critical applications.

STERYFLON is manufactured within a controlled environment and each cartridge is integrity tested and is validated for bacterial retention correlated with microbiological challenge test.

Filter media	PTFE membrane		
Upstream supports	polypropylene		
Downstream supports	polypropylene		
Internal Core	polypropylene		
External Cage	polypropylene		
End caps / Adapters	polypropylene		

MATERIALS OF CONSTRUCTION

FOOD-SAFETY

STERYFLON Plus filter elements meet regulation (EC) 1935/2004 for indirect food contact. BIO-SAFETY

Filter media and components pass USP Biological Reactivity and Chemical-Physical tests for CLASS VI plastics.

The filter meets USP "Water for injection" requirements for particle release and the effluent is Non-Pyrogenic per USP Bacterial Endotoxins (< 0,25 EU/ml).

QUALITY STANDARDS

Produced under a certified Quality System to guarantee traceability of manufacturing records and integrity testing results.

OPERATING CONDITIONS

- max. continuous temperature of fermentation inlet and exhaust air	70 °C
 max. continuous temperature for vent filter in recirculation loop 	83 °C
- max. cumulative time of steam sterilization	150 hours at 140 °C with cycles of 30 minutes
- sanitization with chemicals	can be sanitized by standard chemical agents
- max. differential pressure	5,0 bar at 25 °C
- recommended change out differential pressure	2,0 bar at 25 °C

CODE		E FILTRATION	3) BACTERIAL RETENTION >10 ⁷ CFU/cm ²	ACCEPTABLE LIMIT FOR INTEGRITY TEST		
	IN LIQUID	IN DRY GAS	>10 CF0/cm			
SH	0,1 µm	< 0,01 µm	Acheleoplasma laidlawii in liquid	1) ≤ 12 ml/min @ 1,3 bar		
SL	0,2 µm	< 0,01 µm	Batteriofago T1 in aerosol	1) ≤ 12 ml/min @ 0,8 bar		
SLA	0,2 µm	< 0,01 µm	Brevundimonas diminuta in liquid	2) \leq 16 Nml/10min @ 2,5 bar		
Mahai						

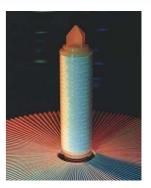
Note:

1- The integrity is verified by DIFFUSION TEST using an aqueous solution of isopropyl alcohol

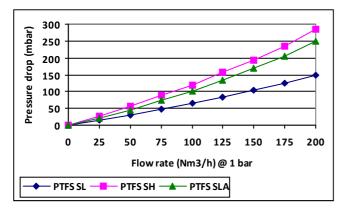
(IPA 60/40 V/V) as wetting liquid.

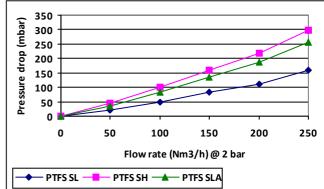
2- The integrity is verified by WATER FLOW INTRUSION TEST.

3- Cartridges are validated for retention of the microorganism reported in the table according to ASTM F838-05.



AIR FLOW RATE FOR 10" CARTRIDGE





STERYFLON Plus ORDERING INFORMATION

PTFS -	- <u>207</u>	1 	-	<u>SL</u>	-				-	<u>PH</u>		
END FITTING	CODE									_		
DOE: double open end with flat gaskets	200		FILT	OLUTE RATION TING	CODE		DE		CODE	PRODUCT GRADE		
			m	nicron				No code	Biological Grade			
SOE: open end with (2) O-Ring 2.222. Blind end with flat	203		0,1		SH *			РН	Non-pyrogenic Grade. Quality Certification in			
top.						SL *				the box		
SOE: open end with (2) O-Ring 2.226 and 2 bayonet locks. Blind end with fin.	207		0,2SLA *** Integrity by IPA diffusion test ** Integrity by water intrusion test						PHH Non-pyrogenic (Quality Certifi with serial num the box		Certification	
SOE: open end with (2) O-Ring 2.222. Blind end with fin.	208						CODE		GASKI	ETS	END	
SOE: open end with						_					FITTING	
(2) O-Ring 2.222 and 3 bayonet locks. Blind	212	C	ODE	NOMIN			No cod	e s	tandard	EPDM	200	
end with fin.			LENGT		Н		т	O	n request	Teflon	200	
			05	5″			No cod	e s	tandard	Silicone	All the	
			1	10″			v	N	n request	Viton	others	
			2	20″			F		n request	FEP	207	
			3	30″			•		request	1	207	
			4	40″								

Data contained in this bulletin are informative and subject to change without notice. User is responsible for determining whether the product is fit for particular purpose and suitable for User's method of application.



Bea Technologies Spa Via Newton, 4 - 20016 Pero (Milano) ITALY Tel +39 02 339271 FAX +39 02 3390713 e-mail: info@bea-italy.com web: www.bea-italy.com