



## PF-N6

Positive Zeta Nylon66 Membrane · Sterile Liquid Filter



# PF-N6

## PF-N6:

Ultrafilter PF-N6 Filter Cartridges are composed of an inherently hydrophilic Nylon 66 membrane. It's specifically designed for bio-burden reduction and the final filtration of a wide range of pharmaceutical and biological solutions. A modified Nylon 66 membrane with positive-charged Zeta particles is available, which provides enhanced retention of fine particles such as endotoxins.

## QUALITY STANDARDS:

- Bacterial quantitative retention of 107 CFU/cm<sup>2</sup> *Brevundimonas Diminuta* (ATCC 19146) according to ASTM F838 methodology
- 100% Integrity testing in manufacturing
- Each filter is fully traceable with unique serial number
- Manufactured in a facility which adheres to ISO 9001:2015 practices
- Full Regulatory Compliance with following:
  - Bacterial Endotoxin: Aqueous extraction of autoclaved filter contains <0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL), USP<85>.
  - Non-fiber releasing: Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
  - Component Material Toxicity:
  - Meet the requirement of USP <87> In Vitro Cytotoxicity Test;
  - Meet the Criteria of USP<88> Biological Reactivity Test for Class VI-121°C plastics.
  - TOC / Conductivity at 25 °C: Autoclaved filter effluent meet the USP<643> for Total Organic Carbon and USP<645> for Water Conductivity per WFI requirements after a UPW flush of specified volume.
  - Particle Shedding: Autoclaved filter effluent meet the USP<788> for large volume Injections
  - Indirect Food Additive: All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182, and EU framework regulation [1935/2004/EC].

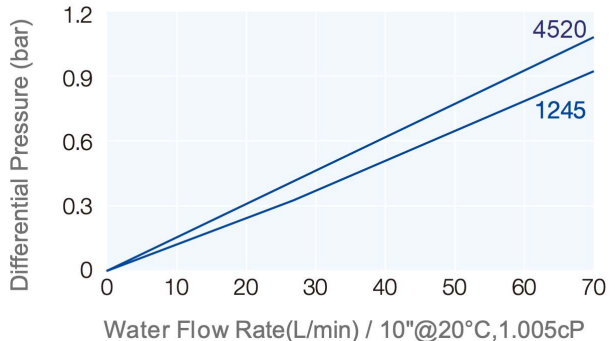
## FEATURES AND BENEFITS:

- Inherently water wettability
- Nylon66 filter removes endotoxins through the formation of positive-charged Zeta particles
- High bubble point ensures a more reliable retention efficiency
- Low pressure drops and high flow rates
- Longer service life

## APPLICATIONS:

- Buffer Solutions
- WFI
- LVP & Antibiotics

## Flow Rate Characteristics



Kronsbein ultrafilter®

## Ultrafilter GmbH Headquarters

Otto-Hahn-Str. 1 • 40721 Hilden • Germany

Tel: +49 (0) 21 03.33 36 13 • Fax +49 (0) 21 03.33 36 36

e-Mail: info@ultra-filter.de • www.ultra-filter.de



# PF-N6

## Technical Data:

MATERIALS OF CONSTRUCTION	
Filter Medium	Nylon 66 membrane
Support	Polypropylene
Cage/Core/End Caps	Polypropylene
Adapter Internal Support	PBT
O-Rings	Silicone, EPDM, Fluoroelastomer

OPERATING CONDITIONS	
Maximum Operating Pressure	6.9 bar (100 psi) at 25 °C 4.0 bar (58 psi) at 60 °C 2.4 bar (35 psi) at 80 °C
Max. Differential Pressure	Forward 6.9 bar (100 psi) at 25 °C 4.0 bar (58 psi) at 60 °C 2.4 bar (35 psi) at 80 °C Reverse 3.0 bar (44 psi) at 25 °C 1.0 bar (15 psi) at 80 °C
Bubble Point	BP: ≥3.0 bar (44 psi), air, 0.22µm BP: ≥1.2 bar (17 psi), air, 1.2+0.45µm
Diffusion Flow	DF: ≤16ml/min/10" @0.275Mpa, 0.22µm
Inline Steam Sterilization	Up to 10 cycles (121°C for 30 min < 0.3 bar per cycle)
Effective Filtration Area	0.58m <sup>2</sup> / Ø 71-10 inch

## ORDERING INFORMATION

### PF-N6

	REMOVAL	NOMINAL LENGTH	END CAP	SEAL MATERIAL
PF-N6SL	10 = 0.10 µm	5 = 5"	2 = Code 2	A = EPDM
	20 = 0.20 µm	1 = 10"	3 = Code 3	B = Silicone
	45 = 0.45 µm	2 = 20"	7 = Code 7	C = Viton
	10 = 1.00 µm	3 = 30"	8 = Code 8	E = FEP Viton
		4 = 40"	MF = DOE	F = FEP Silicone
			UF = UF	G = PFA/Viton
PF-N6DL	1010 = 0.10 + 0.10 µm			
	2020 = 0.20 + 0.20 µm			
	4520 = 0.45 + 0.20 µm			
	1045 = 1.00 + 0.45 µm			
	1245 = 1.20 + 0.45 µm			



### Ultrafilter GmbH Headquarters

Otto-Hahn-Str. 1 • 40721 Hilden • Germany  
 Tel: +49 (0) 21 03.33 36 13 • Fax +49 (0) 21 03.33 36 36  
 e-Mail: info@ultra-filter.de • www.ultra-filter.de

