

# DN66PC Filter Cartridges

Positive Zeta Nylon66 Membrane · Sterile Liquid Filter

**DN66PC** Filter Cartridges are composed of a covalent charge-modified Nylon 66 membrane. A modified Nylon 66 membrane with positive-charged Zeta particles is available, which provides enhanced retention of fine particles smaller than the membrane's rating, such as endotoxins.

## Features and Benefits

- Modified positive charged Nylon 66 membrane
- Endotoxin removing
- High flow rates
- Low filter extractables

## Quality Standards

- Bacterial quantitative retention of  $10^7$  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].

## Typical Application

- Reagents, Intermediates and Viscous Fluids
- WFI
- LVP & Antibiotics



## Materials of Construction

Filter Media	Nylon 66
Support	Polypropylene
Cage/Core/End Caps	Polypropylene
Adapter Internal Support	PBT

## Operating Conditions

Max. 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: ≥0.30 Mpa (Water), 0.22μm
Diffusion Flow	DF: ≤16ml/min/10" @0.275Mpa, 0.22μm
Effective Filtration Area	0.58m <sup>2</sup> / Φ 69-10 inch

## Sterilization

**Inline Steam Sterilization** Up to 10 cycles (121°C for 30 min < 0.3 bar per cycle)

## Ordering Information

NY6PC (Single Layer)	Removal Ratings	End Cap	Nominal Length	Seal Material	-P
	0010 = 0.1μm	HSF = 226 /Fin (PBT Insert)	05 = 5"	S = Silicone	
	0022 = 0.22μm	HTF = 222 /Fin (PBT Insert)	10 = 10"	E = EPDM	
	0045 = 0.45μm	HTC = 222 /Flat (PBT Insert)	20 = 20"	V = Viton	
	0100 = 1.0μm	HSCA = 226 /Flat (PBT Insert)	30 = 30"	P = PFA/Viton	
		DOE = Double Open End	40 = 40"		
<b>DN66PC</b> (Double Layer)	1010 = 0.1+0.1μm				
	2222 = 0.22+0.22μm				
	4522 = 0.45+0.22μm				
	1045 = 1.0+0.45μm				

## Flow Rate Characteristics

