

DN66T Filter Cartridges

Nylon 66 Membrane·Sterile Liquid Filter

DN66T 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.

Features and Benefits

- Intrinsically water wettability
- Modified DN66T 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

Quality Standards

- Bacterial quantitative retention of 10^7 CFU/cm² 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

- Buffer Solutions
- WFI
- LVP & Antibiotics



Materials of Construction

Filter Media	Hydrophilic Nylon 66 Membrane
Support	PET
Cage/Core/End Caps	Polypropylene

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
Effective Filtration Area	0.58m ² / Φ 69-10 inch

Sterilization

Inline Steam Sterilization	Up to 50 cycles (121 °C for 30 min < 0.3 bar per cycle) .
Autoclave	Up to 50 cycles (121 °C for 30 minutes) .

Integrity Test Data

Bubble Point	BP : ≥0.38 MPa (water), 0.1 μm +0.1 μm BP : ≥0.34 MPa (water), 0.22 μm +0.22 μm BP : ≥0.30 MPa (water), 0.45 μm +0.22 μm
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Ordering Information

DN66T	Removal Ratings	End Cap	Nominal Length	Seal Material	-P
	1010 =0.1+0.1μm	HSF=226 /Fin (PBT Insert)	05=5"	S=Silicone	
	2222 =0.22+0.22μm	HSC=226 /Flat (PBT Insert)	10=10"	E=EPDM	
	4522 =0.45+0.22μm	HTF=222 /Fin (PBT Insert)	20=20"	V=Viton	
	1045 =1.0+0.45μm	HTC=222 /Flat (PBT Insert)	30=30"	P=PFA/Viton	
		DOE=Double Open End	40=40"		

Flow Rate Characteristics

