

# Positively Charged Nylon Membran Cartridge Filters - Type CFNNZe



The Nucart® Nylon (Nylon-66 pleated) series of cartridge filters are available in 0.22µm, 0.45µm and 0.80µm ratings and are especially designed & developed for high purity and final filtration applications. i.e. water, solvents, sterile filtration, organic and aqueous samples filtration.

Engineered using absolute rated Nylon 66 membranes, these filters are available in multiple size options (5"-40") and suitable from laboratory to full production applications as they offer versatile performance in terms of fast flow with better throughput.

## Special Features & Benefits

- ✓ 100% integrity tested
- ✓ Wide chemical compatibility
- ✓ Hydrophilic
- ✓ Easy Traceability
- ✓ Minimal extractables

## Key Applications

- Endotoxin Removal
- LVPs and SVPs
- Filtration of Buffers and organic solvents
- Sterilization of hormonal injectables

***Our Nucart Cartridge filters are quality assured for retention efficiency, integrity test and flow rate and validated for Heat Stability, Beta ratio test, fiber particle release, extractables and biosafety***

## In Compliance with Global Standards

<b>Bacterial Endotoxin</b>	<i>The filtrate/Aqueous extraction from downstream of the filter exhibited endotoxin result &lt; 0.25 EU/mL when tested as per USP &lt;85&gt; methodology</i>
<b>Oxidizable Substances</b>	<i>Oxidizable matter in filtered water meets the USP &lt;1231&gt; Oxidizable Substance Test requirements</i>
<b>Non-fiber Releasing</b>	<i>Meets the criteria for a "non-fiber releasing" filter as defined in 21 CFR 210.3(b)(6).</i>
<b>Particle Shedding</b>	<i>Meets Cleanliness per USP &lt;788&gt; for Particulates in Injectables</i>
<b>Extractable with water</b>	<i>Extractable passes within limit as specified by USP &lt;661&gt;</i>
<b>TOC/ Conductivity</b>	<i>Meets the USP &lt;643&gt; for Total Organic Carbon Meets the USP &lt;645&gt; for Water Conductivity</i>

- Manufactured in an ISO Class 8 Cleanroom Environment
- Complete Qualification Guide Available
- Critical raw material used for manufacturing are Compliant with FDA Indirect Food Additive requirements cited in 21 CFR 177.1520 & 21 CFR 177.2440
- Comply with USP <88> Reactivity Test for Class VI plastics
- Wide Chemical Compatibility
- 100% Integrity Tested

# TECHNICAL SPECIFICATIONS

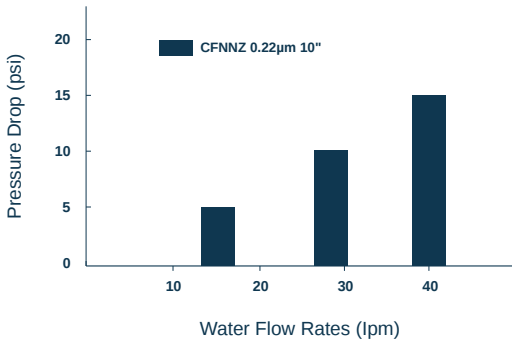


## CONSTRUCTION MATERIALS

**Filter Media:** Positively Charged Nylon-6,6

**Supporting Media:** Polyester

**Core & Cage:** Polypropylene



## MAXIMUM OPERATING DIFFERENTIAL PRESSURE AND TEMPERATURE

**Max Temp** 80 °C @ ≤ 2 Kg/cm<sup>2</sup>

**Max Pressure** 3.5 Kg/cm<sup>2</sup> @ 25 °C

**Autoclavable** Steam sterilizable/ autoclaveable at 130 °C for 30 minutes

## INTEGRITY TEST DATA

### Bubble Point:

0.22µm: ≥ 3450 mbar (50 psi) (with water wetted)

0.45µm: ≥ 2268 mbar (32 psi) (with water wetted)

### Max Air Diffusion Flow (for 10" Cartridge):

0.22µm: ≤ 30 mL/min @ 2482 mbar (36 psi)

0.45µm: ≤ 35 mL/min @ 1650 mbar (24 psi)

0.80µm: ≤ 35 mL/min @ 689 mbar (10 psi)

### Bacterial Retention:

0.22µm: LRV > 7 for *Brevundimonas Diminuta*

0.45µm: LRV > 7 for *Serratia marcescens*

## ORDERING INFORMATION CODES:

Type		Size			Pore Size		Adaptor		Rings / Gaskets	
Type	Code	Length	EFA	Code	Micron	Code	Type	Code	Ring	Code
Positively Charged Nylon Cartridge Filter	CFNNZ	3"	0.2m <sup>2</sup>	03	0.22 µm	020	7P	U	Silicone	SS
		5"	0.3m <sup>2</sup>	05	0.45 µm	045	BEO	V	Viton	SV
		9.75"	0.7m <sup>2</sup>	9.75			K SEAL	K	EPDM	SE
		10"	0.7m <sup>2</sup>	10			Optiseal	X	Encapsulated PTFE	FV
		20"	1.4m <sup>2</sup>	20			4463	Y		
		30"	2.1m <sup>2</sup>	30			4463B	Z	Synthetic Rubber	SR
		40"	2.8m <sup>2</sup>	40			M Disc	Q	No Ring	XX
								222	R	
						4440	W			

**EXAMPLE:** CFNNZ05020USS



## Nupore Filtration Systems Pvt Ltd

**H.O.** Plot No. 7 Industrial Area Meerut Road, Ghaziabad, U.P.-201003, India

**Branch:** Plot No. 76 & 77, Sector-1, HSIIDC, Saha, Ambala Cantt 133104, India



+91120 - 6335825  
+91120 - 6335826



sales@nupore.com

www.nupore.com