

Nylon Membrane Cartridge Filters



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

- ✓ Easy Identification & Traceability
- ✓ Reusable after multiple sterilization cycles
- ✓ Broad Chemical Compatibility across organic and aqueous sample; 5-10 pH
- ✓ Most economical among all available membranes for sterile filtration

Key Applications

- LVPs and SVPs
- Vaccine Production
- Quality Buffers Preparation
- Final Sterile Grade Filtration
- Non-protein solutions, Aqueous and organics chemicals
- Water for Injections (WFIs)
- Sterilization of Hormonal Injectables
- Microbial Retention & Stabilization

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

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

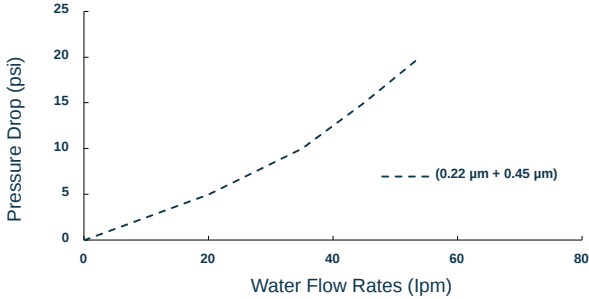


CONSTRUCTION MATERIALS

Filter Media: Nylon 6,6

Supporting Media: Polyester

Core & Cage: Polypropylene



MAXIMUM OPERATING DIFFERENTIAL PRESSURE AND TEMPERATURE

Max Temp	80 °C @ ≤ 2 Kg/cm ²
Max Pressure	3.5 Kg/cm ² @ 25 °C
Autoclavable	25 autoclave/steam sterilization cycles of 30 minutes at 121 °C/135 °C

INTEGRITY TEST DATA

Bubble Point:

0.22µm:	≥ 3447 mbar (50 psi)	(with water wetted)
0.45µm:	≥ 2206 mbar (32 psi)	(with water wetted)
0.80µm:	≥ 965 mbar (14 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 @ 1655 mbar (24 psi)
0.80µm:	≤ 35 mL/min @ 689 mbar (10 psi)

Microbial Retention:

0.22µm:	LRV > 7 for <i>Brevundimonas Diminuta</i>
0.45µm:	LRV > 7 for <i>Serratia marcescens</i>
0.80µm:	LRV > 4 for <i>Staphylococcus Aureus</i>

ORDERING INFORMATION CODES:

Type		Size			Pore Size		Adaptor		Rings / Gaskets	
Type	Code	Length	EFA	Code	Micron	Code	Type	Code	Ring	Code
Single Layer	CFNN	3"	0.2m ²	03	0.22 µm	020	7P	U	Silicone	SS
CFNN 0.8µm upstream	CFNNR2	5"	0.3m ²	05	0.45 µm	045	BEO	V	Viton	SV
		9.75"	0.7m ²	9.75	0.80 µm	080	K SEAL	K	EPDM	SE
CFNN 0.65µm upstream	CFNNR1	10"	0.7m ²	10			Optiseal	X	Encapsulated PTFE	FV
		20"	1.4m ²	20			4463	Y		
CFNN 0.45µm upstream	CFNNQ	30"	2.1m ²	30			4463B	Z	Synthetic Rubber	SR
		40"	2.8m ²	40			M Disc	Q		
High temp Nylon	CFNH						222	R	No Ring	XX
+ve Charged	CANNZ						4440	W		

EXAMPLE: CFNN05020USS



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