

# Disposable Membrane Syringe Filters



Nupore syringe filters contain a membrane disc filter sealed inside a polypropylene housing. These can be used for both aqueous and solvent-based sample filtration applications.

We also provide syringe filters layered with a pre-filter for graded retention of colloidal particles associated with high turbid solutions. Pre-sterilized syringe filters with individual packing are also available. Each Nupore syringe filter undergoes industry-standard validation procedures and QA/QC systems to ensure high quality and reliability.

## Special Features & Benefits

- ✓ Absolute retention and High throughput
- ✓ Wide chemical compatibility
- ✓ Heat sealed to avoid leaching
- ✓ No initial flushing required
- ✓ HPLC Certified

## Types Available

- Nylon-66
- PTFE
- Microglassfiber
- Polypropylene
- Hydrophilic PVDF
- Polyethersulfone (PES)
- Mixed cellulose ester (MCE)

## Key Applications

- Sample filtration for HPLC and other critical instruments
- Filtration of organic solvents and chemicals

***Our Nupore Syringe 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 &lt; 0.25 EU/mL when tested as per USP &lt;85&gt; methodology</i>
Oxidizable Substances	<i>Oxidizable matter in filtered water meets the USP &lt;1231&gt; 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 &lt;788&gt; for Particulates in Injectables</i>
Extractable with water	<i>Extractable passes within limit as specified by USP &lt;661&gt;</i>
TOC/ Conductivity	<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
- Integrity Tested

## TECHNICAL SPECIFICATIONS



### CONSTRUCTION MATERIALS

**Filter Media:** *Hydrophilic PVDF*

Nylon-66  
Microglassfiber  
Polypropylene  
PTFE  
MCE  
PES

**Core & Cage:** *Polypropylene*

Parameter	Values	
Diameter	13mm	25mm
EFA	0.8cm <sup>2</sup>	4.15cm <sup>2</sup>
Hold-up volume	<20 µl	<50 µl

### ORDERING INFORMATION CODES:

Type		Size		Pore Size		Sterilization	
Type	Code	Length	Code	Micron	Code		Code
Nylon	NNSY	13 mm	13	0.22 µm	020	ETO	SE
Nylon with GF	GNSY	25 mm	25	0.45 µm	045	Gamma	SG
PTFE	TFSY			0.80 µm	080	Non-sterile	SN
PTFE with GF	GTSY			1.00 µm	10#	Non-sterile (Gamma Sterilizable)	SN-G
PVDF	PVSY			2.00 µm	20#		
PVDF with GF	GVSY						
GlassFiber	GFSY						
Mixed cellulose ester (MCE)	MESY						
Polypropylene	PPSY						
PES	PESY						

\* 1.0µm & 2.0µm available in Glass fiber only

\* 0.8µm available in Nylon only

(1) - Contact sale for PPSY pore size options

**EXAMPLE: NNSY1302SN**

**NUPORE**<sup>®</sup>

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# Colour Coding

All Nupore syringe filters are colour coded as per membrane type, pore size and pre-filter layering for easy identification

**0.45 µm NNSY**

Nylon-66 membrane  
syringe filter



**0.22 µm NNSY**

Nylon-66 membrane  
syringe filter



**0.45 µm GNSY**

Nylon-66 membrane  
syringe filter with pre-filter



**0.22 µm GNSY**

Nylon-66 membrane  
syringe filter with pre-filter



**0.45 µm TFSY**

PTFE membrane  
syringe filter



**0.22 µm TFSY**

PTFE membrane  
syringe filter



**0.45 µm GTSY**

PTFE membrane syringe  
filter with pre-filter



**0.22 µm GTSY**

PTFE membrane syringe  
filter with pre-filter



**0.45 µm PVSY**

PVDF membrane  
syringe filter



**0.22 µm PVSY**

PVDF membrane  
syringe filter



**0.45 µm GVSY**

PVDF membrane syringe  
filter with pre-filter



**0.22 µm GVSY**

PVDF membrane syringe  
filter with pre-filter



**1 µm GFSY**

Microglassfiber syringe  
filter



**2 µm GFSY**

Microglassfiber syringe  
filter

