

• FILTER MEMBRANES



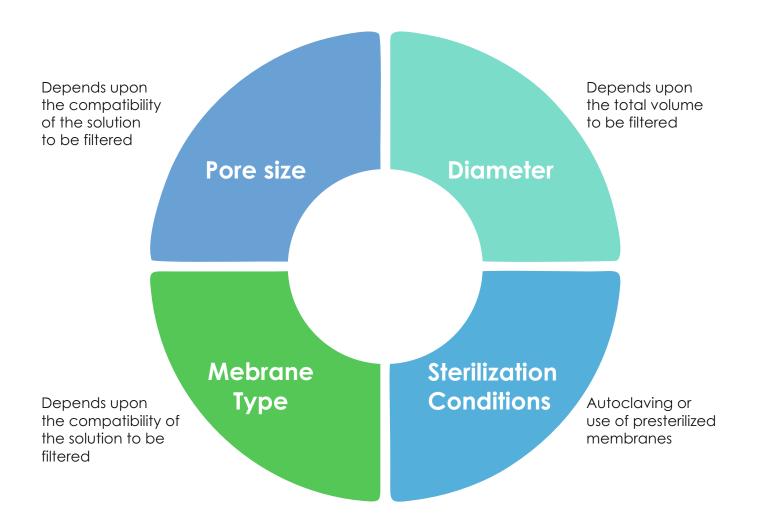
BOROSIL

Filter membranes as a new offering from Borosil which includes membrane for applications such as HPLC mobile phase filtration, analysis of particulate or biological contaminants, small volume filtration and sterile filtration of media and buffer.

Membrane filtration is technique to separate particles in any liquid. It works by retaining the particles larger than the pore size of the membrane while allowing smaller molecules to pass through it.

How to choose the right filter membrane?

Selection of the filter membrane on the following factors



BORO PURE

Filter Membranes

Cellulose Nitrate Membrane, PLAIN

- Hydrophilic in nature and biologically inert
- High retention and high flow rate
- Recommended for applications like clarification and sterilization of media, reagents, sterility testing of water or other products
- Autoclavable at 121°C for 30 mins for sterilization

Speci	514722N	514745N		
Pore Size	0.22 µm	0.45 µm		
Diameter	47 mm			
Water	20.0 ml/min/cm ²	45.0 ml/min/cm²		
Bubble Point	>= 52psi	>= 30 psi		
Maximum Operating Temperature	80°C continuous			
Retention ef	LRV > 7 for B. Diminuta	LRV > 7 for S. Marcescens		
Sterility	Non -sterile			
Quantity per pack	100 Membranes			
Quantity per Case	5 Packs of 100 Membranes each			

Cellulose Nitrate Membrane, GRIDDED

- Hydrophilic in nature and biologically inert
- High retention and high flow rate
- White membrane with black grids that makes colony counting easier
- Grids do not inhibit the growth of microorganisms
- Recommended for applications like sterility testing of water or other products
- Autoclavable at 121°C for 30 mins for sterilization

Speci	514722N 514745N			
Pore Size	0.22 μm 0.45 μm			
Diameter	47 mm			
Water	20.0 ml/min/cm ²	45.0 ml/min/cm ²		
Bubble Point	>= 52psi	>= 30 psi		
Maximum Operating Temperature	80°C continuous			
Retention ef	LRV > 7 for B. Diminuta	LRV > 7 for S. Marcescens		
Sterility	Non -sterile			
Quantity per pack	100 Membranes			
Quantity per Case	5 Packs of 100 Membranes each			





BOROPURE

- Wide chemical compatibility and resistant to strong solvents and alcohols
- Recommended for applications like clarification of aqueous and organic HPLC mobile phase solvents, HPLC sample preparations
- Tested for extractables and particles release, suitable for HPLC application
- Autoclavable at 121°C for 30 mins for sterilization

Specifications	534722N 534745N				
Pore Size	0.22 µm	0.45 µm			
Diameter	47 mm				
Water flow rate	12.0 ml/min/cm ²	32.0 ml/min/cm ²			
Bubble Point	>= 52psi	>= 30 psi			
Maximum Operating Temperature	80°C continuous				
Extractables with Water	Within limits specified of USP				
Sterility	Non -sterile				
Quantity per pack	100 Membranes				
Quantity per Case	5 Packs of 100 Membranes each				

For membranes of other types, diameter and pore sizes, please contact our sales representative







Filter Membrane compatibility Chart

Name of the chemical	Nylon - 66	PTFE	PVDF	PES	Cellulose Nitrate
Acids	· · · · ·				
Acetic, 10%	С	С	С	С	С
Boric, 5%	L	С	С	С	С
Hydrochloric, 25%	L	С	С	С	N
Hydrochloric, Conentrated	Ν	L	L	С	N
Sulfuric, 25%	Ν	С	С	С	С
Sulfuric, Concentrated	N	Ν	L	N	N
Nitric, 25%	N	L	L	L	С
Nitric, Concentrated	N	L	L	N	N
Phosphoric acid, 25%	N	С	_	С	L
Bases	ΙΙ.				
Potassium hydroxide, 6N	С	С	_	С	N
Sodium Hydroxide, 3N	С	C	С	C	N
Ammonium Hydroxide, 25%	C	C	L	C	N
Alcohols		-			
Amyl Alcohol	С	С	С	С	_
Benzyl Alcohol	L	C	С	N	L
Butyl Alcohol	C	C	_	C	
Ethanol, 70%	C	C	С	C	N
Ethanol, 98%	C	C	C	L	N
Ethylene Glycol	C	C	C	C	
Glycerol	L	C	_	C	L
Isopropanol	C	C	С	C	
Methanol, 98%	C	C	С	C	N
n-Propanol	C	C	C	C	
Propylene Glycol	C	C	C	C	
Hydrocarbons	2				
Benzene	С	С	С	N	С
Hexane Xylene	C	C	С	N	C
Kerosene Gasoline	C	C	C		
Tetralin, Decalin	C	C	C	N	_
Toluene	C	C	C	N	С
Halogenated Hydrocarbons					
Carbon Tetrachloride	С	С	С	N	С
Chlorobenzene (Mono)	C	C	С	L	
Chloroform		C	C	N N	 N
Freon	C	C	C	L	
Methylene Chloride	L	C	C	N L	

C = Compatible

N = Not compatible

L = Limited Compatibility

– = No data available

The information in this chart is to be used ONLY as a guide in selecting membrane for appropriate chemical compatibility. ALWAYS test under the speci?c conditions of your application before use.

Filter Membrane compatibility Chart

Name of the chemical	Nylon - 66	PTFE	PVDF	PES	Cellulose Nitrate
Trichloroethane	С	С	С	N	L
Trichloroethylene	С	С	С	N	L
Ketones					
Acetone	С	С	Ν	N	N
Cyclohexanone	С	С	N	N	С
Isopropylacetone	С	С	N	N	N
Methyl Ethyl Ketone	С	С	N	N	-
Methyl Isobutyl Ketone (MIBK)	С	С	N	N	_
Esters					
2-Ethoxyethyl Acetate	L	L	L	N	-
Amyl Acetate	С	С	С	N	N
Benzyl Benzoate	С	С	-	N	-
Butyl Acetate	С	С	С	N	N
Ethyl Acetate	С	С	С	N	N
Isopropyl Myristate	С	С	-	N	-
Methyl Acetate	L	С	L	N	_
Propyl Acetate	L	Ν	С	N	_
Propylene Glycol Acetate	L	С	_	N	_
Methyl Cellosolve Acetate	С	С	С	N	_
Tricresyl Phosphate	-	С	_	N	_
Oxides — Ethers					1
Acetonitrile (Methyl Cyanide)	С	С	С	N	N
Aniline	L	С	С	N	_
Diethyl Acetamide	С	С	С	_	_
Dimethyl Formamide	С	С	N	N	N
Dimethyl Sulfoxide (DMSO)	С	С	С	N	N
Dioxane	С	С	L	N	_
Ethyl Ether	С	С	С	С	_
Isopropyl Ether	С	С	Ν	С	_
Pyridine	С	С	L	N	_
Solvents with Nitrogen			1	1	ļ
Tetrahydrofuran	С	С	L	N	_
Triethanolamine	С	С	С	_	_
Miscellaneous					I
Formaldehyde Solution, 30%	С	С	С	С	_
Hydrogen Peroxide, 30%	N	C	C	C	_
Phenol, Aqueous, 10%	N	C	L	N	
Silicone Oil & Mineral Oil	С	C	С	С	_

C = Compatible

N = Not compatible

L = Limited Compatibility

– = No data available

The information in this chart is to be used ONLY as a guide in selecting membrane for appropriate chemical compatibility. ALWAYS test under the speci?c conditions of your application before use.



BOROSIL LIMITED

L

1101, Crescenzo, G-Block, Opp. MCA Club, Bandra Kurla Complex, Bandra (E), Mumbai - 400 051. India T :+91 22 6740 6300 F : +91 22 6740 6514 E : borosil@borosil.com W : www.borosil.com

L

Write to us for export enquiries at **eximbor@borosil.com**

MUMBAI T : 022 6740 6400 F : 022 6740 6444 E : mumbaisales@borosil.com	DELHI T : 011 41505893 E : delhi@borosil.com	CHENNAI T : 044 2822 6012 / 13 F : 044 2822 6014 E : chennai@borosil.com	KOLKATA T : 033 2229 9166 F : 033 2226 2045 E : calcutta@borosil.com	AHMEDABAD T : 079 4009 3175 E : mumbaisales@borosil.com
Laboratory Glassware : https://www.borosillab.cor	m	Laboratory Equipmen https://labquest.co		Filter Papers : https://borosilfilters.com