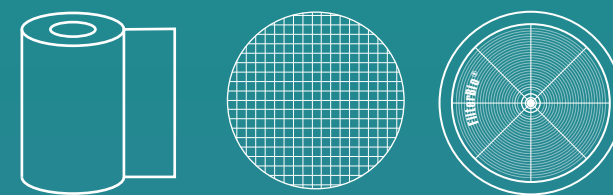


FILTER-BIO

FILTER-BIO

—— **LAB FILTRATION**



**NANTONG
FILTERBIO
MEMBRANE
CO., LTD**

Microfiltration
products

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Address: Building 11, Optical-electrical-mechanical Park, No. 1692
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FilterBio®

Nantong FilterBio Membrane Co., Ltd



Nantong FilterBio Membrane Co.,Ltd is specialized in manufacturing micro filtration products, including lab filtration and industry filtration. We have 100,000 clean work-shop, 3000 square meters factory and in 2013 we got ISO9001 certificate. We have many years professional experience in the micro filtration field, aim to provide high quality products with the best service for our customers.

Our main business covers disc microporous membrane filters, syringe filters, roll mem-brane, and vacuum filter, available in the material of Nylon, MCE, CA, CN, PES, PVDF, PTFE, PP, Glass Fiber, with pore size ranging from 0.1µm to 10µm. Our products have been widely used in industries like bioscience, pharmacy, microelectronics, chemistry, food & beverage, etc.

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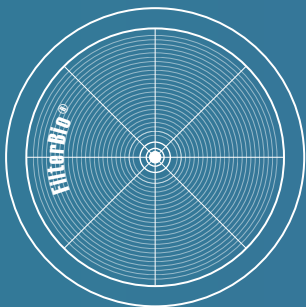


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FilterBio® Disposable Syringe Filter

- CA Syringe Filter
- PTFE Syringe Filter
- PES Syringe Filter
- PVDF Syringe Filter
- Nylon Syringe Filter



FilterBio® Syringe Filters are syringe-operated filters for the clarification of aqueous solutions (column eluates, tissue culture additives, HPLC samples, etc.). Doing beautiful appearance on general syringe filters and containing high quality membrane materials make your experiment performance more perfect. It is designed to be color-coding which makes the products more beautiful and innovative. The Classic range is available in all of the major membranes including Nylon, PTFE, PVDF, CA and PES, which are supplied in 13mm, 25mm, 30mm formats in polypropylene housings.

FEATURES

Color Coding

Easier to tell the filter membrane

Better Membrane Media

Improved membrane flow rates

Application Compatibility

Broad range of filtration media meets diverse application needs and best for chromatography application

Sterile

Filters can be purchased pre-sterilized by Gamma radiation and individually packaged

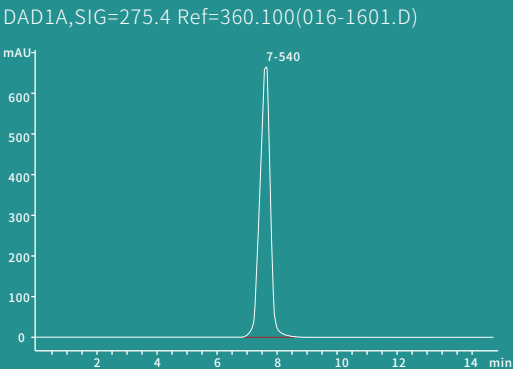
VALIDATED HPLC PERFORMANCE

HPLC certification guarantees the filters will not produce extraneous peaks in the UV range.
100% integrity tested with higher burst strength ratings assuring they will perform consistently.
Available in 13 and 25mm sizes and available in sterile, too.
0.45µm for most clarification applications and 0.22µm when fine particulate removal is required. Other pore size are available in 0.8µm to 5µm.

HPLC EXTRACTABLES TEST

Agilent 1200

Column	MeOH/H ₂ O:20:80
Mob.phase	C18 UV = 254 nm
Temperature	25°C
Flow rate	0.8ml/min
sample	2mg/ml Bergenin (in Methanol)

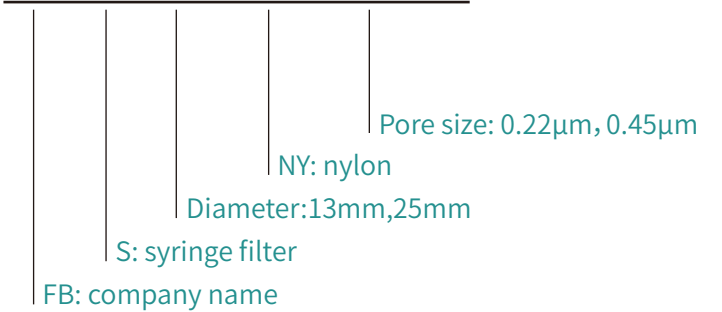


TECHNICAL SPECIFICATIONS

Parameters	13mm	25mm	30mm
Effective Filtration Area(cm2)	1	3	4.5
Maximum Pressure	87psi (6.0 bar) at 20 ° C	87psi (6.0 bar) at 20 ° C	87psi (6.0 bar) at 20 ° C
Maximum Operating Temperature	50 ° C	50 ° C	50 ° C
Materials of Construction	Housing: Polypropylene	Housing: Polypropylene	Housing: Polypropylene
Filtration Media	As specified		
Holdup volume (µl)	<25	<100	<200
Sample volume (ml)	<10	<100	<200
Connectors	Inlet: Female Luer Lock Outlet: Male Slip Luer	Inlet: Female Luer Lock Outlet: Male Slip Luer	Inlet: Female Luer Lock Outlet: Male Slip Luer
Flow Direction	Inlet: Female Luer Lock Outlet: Male Slip Luer (MSL)	Inlet: Female Luer Lock Outlet: Male Slip Luer	Inlet: Female Luer Lock Outlet: Male Slip Luer

ORDERING INFORMATION

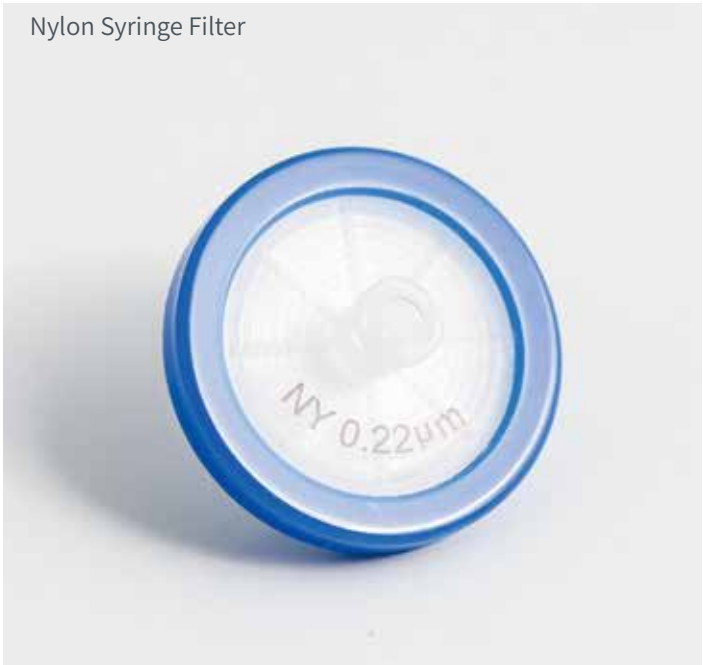
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APPLICATION

- HPLC sample preparation
- Routine QC analysis
- Content uniformity
- Removal of protein precipitate
- Dissolution testing
- Food analysis
- Bioscience analysis
- Environmental samples

Enhanced Quality



RAW MATERIAL

All the membrane are imported from leading companies which are well known in the filtration market.

It is cutted into some disc membrane that to guarantee exceptional integrity when filtering some sample. Then through into non-gap sealing, virgin medical PP material is placed to contain all the disc membranes.

It has superior performance to prevent leak of sample solvent and can make sure that membrane area being used in a large filtration area.

QC CONTROL

After manufacturing it in shape, we still focus on testing it to judge whether it is OK and using strictly quality controlled system to forbidden shoddy product.

Every 90 in 100 can be sold to our customer in the end, 10 pieces are to be died out.

The shelf life of packaged product is also monitored and controlled in our ware houses to ensure efficient stock rotation.

Each piece through this system is selected after concerning 5 factors with critical specifications set for:

- * Bubble point
- * Burst pressure
- * Membrane adsorption (protein)
- * Flow rate
- * UV extractables (by HPLC)



PRODUCT INFORMATION

Item	Description	Item	Description
Nylon(Nylon 66) 100/pk		PTFE(Hydrophobic) 100p/pk	
FBS13NY022	0.22 µ m, 13mm	FBS13PTFE022H	0.22 µ m, 13mm
FBS13NY045	0.45 µ m, 13mm	FBS13PTFE045H	0.45 µ m, 13mm
FBS25NY022	0.22 µ m, 25mm	FBS25PTFE022H	0.22 µ m, 25mm
FBS25NY045	0.45 µ m, 25mm	FBS25PTFE045H	0.45 µ m, 25mm
FBS30NY022	0.22 µ m, 30mm	FBS30PTFE022H	0.22 µ m, 30mm
FBS30NY045	0.45 µ m, 30mm	FBS30PTFE045H	0.45 µ m, 30mm

Item	Description	Item	Description
PTFE(Hydrophilic) 100/pk		PES(Polyethersulfone) 100/pk	
FBS13PTFE022L	0.22 μ m, 13mm	FBS13PES022	0.22 μ m, 13mm
FBS13PTFE045L	0.45 μ m, 13mm	FBS13PES045	0.45 μ m, 13mm
FBS25PTFE022L	0.22 μ m, 25mm	FBS25PES022	0.22 μ m, 25mm
FBS25PTFE045L	0.45 μ m, 25mm	FBS25PES045	0.45 μ m, 25mm
FBS30PTFE022L	0.22 μ m, 30mm	FBS30PES022	0.22 μ m, 30mm
FBS30PTFE045L	0.45 μ m, 30mm	FBS30PES045	0.45 μ m, 30mm
PVDF(Hydrophobic) 100/pk		PVDF(Hydrophilic) 100/pk	
FBS13PVDF022H	0.22 μ m, 13mm	FBS13PVDF022L	0.22 μ m, 13mm
FBS13PVDF045H	0.45 μ m, 13mm	FBS13PVDF045L	0.45 μ m, 13mm
FBS25PVDF022H	0.22 μ m, 25mm	FBS25PVDF022L	0.22 μ m, 25mm
FBS25PVDF045H	0.45 μ m, 25mm	FBS25PVDF045L	0.45 μ m, 25mm
FBS30PVDF022H	0.22 μ m, 30mm	FBS30PVDF022L	0.22 μ m, 30mm
FBS30PVDF045H	0.45 μ m, 30mm	FBS30PVDF045L	0.45 μ m, 30mm
CA(Cellulose Acetate) 100/pk		MCE(Mixed Cellulose Acetate) 100/pk	
FBS13CA022	0.22 μ m, 13mm	FBS13MCE022	0.22 μ m, 13mm
FBS13CA045	0.45 μ m, 13mm	FBS13MCE045	0.45 μ m, 13mm
FBS25CA022	0.22 μ m, 25mm	FBS25MCE022	0.22 μ m, 25mm
FBS25CA045	0.45 μ m, 25mm	FBS25MCE045	0.45 μ m, 25mm
FBS30CA022	0.22 μ m, 30mm	FBS30MCE022	0.22 μ m, 30mm
FBS30CA045	0.45 μ m, 30mm	FBS30MCE045	0.45 μ m, 30mm
PP(Polypropylene) 100/pk		RC(Regenerate Cellulose) 100/pk	
FBS13PP022	0.22 μ m, 13mm	FBS13RC022	0.22 μ m, 13mm
FBS13PP045	0.45 μ m, 13mm	FBS13RC045	0.45 μ m, 13mm
FBS25PP022	0.22 μ m, 25mm	FBS25RC022	0.22 μ m, 25mm
FBS25PP045	0.45 μ m, 25mm	FBS25RC045	0.45 μ m, 25mm
FBS30PP022	0.22 μ m, 30mm	FBS30RC022	0.22 μ m, 30mm
FBS30PP045	0.45 μ m, 30mm	FBS30RC045	0.45 μ m, 30mm
GF(Glass Fiber) 100/pk			
FBS13GF070	0.7 μ m, 13mm		
FBS13GF120	1.2 μ m, 13mm		
FBS25GF070	0.7 μ m, 25mm		
FBS25GF120	1.2 μ m, 25mm		
FBS30GF070	0.7 μ m, 30mm		
FBS30GF120	1.2 μ m, 30mm		

FilterBio®

GF Pre-filter

Syringe Filter

FilterBio® GF Pre-filter Syringe Filters are syringe-operated filters with 1.2μm pore size glass fiber prefilter. For the housing and membrane, it's welded together. Compared with the common syringe filter, it has better flow rate and better filtration efficiency. The Classic range is available in all of the major membranes including Nylon, PTFE, PVDF, and PES, which are supplied in 13mm, 25mm, 30mm formats in polypropylene housings.



FEATURES

Experience

Colour same as nonsterile syringe filter

Better Filtration Efficiency

Glass fiber pre-filter

Application Compatibility

Broad range of filtration media meets diverse application needs and best for chromatography application

Sterile

Filters can be purchased pre-sterilized by Gamma radiation and individually packaged

PRODUCT INFORMATION

Item	Description	Item	Description
Nylon+GF 100/pk		PTFE(Hydrophobic)+GF 100/pk	
FBS13NY022G	0.22 μ m, 13mm	FBS13PTFE022HG	0.22 μ m, 13mm
FBS13NY045G	0.45 μ m, 13mm	FBS13PTFE045HG	0.45 μ m, 13mm
FBS25NY022G	0.22 μ m, 25mm	FBS25PTFE022HG	0.22 μ m, 25mm
FBS25NY045G	0.45 μ m, 25mm	FBS25PTFE045HG	0.45 μ m, 25mm
FBS30NY022G	0.22 μ m, 30mm	FBS30PTFE022HG	0.22 μ m, 30mm
FBS30NY045G	0.45 μ m, 30mm	FBS30PTFE045HG	0.45 μ m, 30mm
PTFE(Hydrophilic)+GF 100/pk		PES+GF 100/pk	
FBS13PTFE022LG	0.22 μ m, 13mm	FBS13PES022G	0.22 μ m, 13mm
FBS13PTFE045LG	0.45 μ m, 13mm	FBS13PES045G	0.45 μ m, 13mm
FBS25PTFE022LG	0.22 μ m, 25mm	FBS25PES022G	0.22 μ m, 25mm
FBS25PTFE045LG	0.45 μ m, 25mm	FBS25PES045G	0.45 μ m, 25mm
FBS30PTFE022LG	0.22 μ m, 30mm	FBS30PES022G	0.22 μ m, 30mm
FBS30PTFE045LG	0.45 μ m, 30mm	FBS30PES045G	0.45 μ m, 30mm
PVDF(Hydrophobic)+GF 100/pk		PVDF(Hydrophilic)+GF 100/pk	
FBS13PVDF022HG	0.22 μ m, 13mm	FBS13PVDF022LG	0.22 μ m, 13mm
FBS13PVDF045HG	0.45 μ m, 13mm	FBS13PVDF045LG	0.45 μ m, 13mm
FBS25PVDF022HG	0.22 μ m, 25mm	FBS25PVDF022LG	0.22 μ m, 25mm
FBS25PVDF045HG	0.45 μ m, 25mm	FBS25PVDF045LG	0.45 μ m, 25mm
FBS30PVDF022HG	0.22 μ m, 30mm	FBS30PVDF022LG	0.22 μ m, 30mm
FBS30PVDF045HG	0.45 μ m, 30mm	FBS30PVDF045LG	0.45 μ m, 30mm
CA+GF 100/pk		MCE+GF 100/pk	
FBS13CA022G	0.22 μ m, 13mm	FBS13MCE022G	0.22 μ m, 13mm
FBS13CA045G	0.45 μ m, 13mm	FBS13MCE045G	0.45 μ m, 13mm
FBS25CA022G	0.22 μ m, 25mm	FBS25MCE022G	0.22 μ m, 25mm
FBS25CA045G	0.45 μ m, 25mm	FBS25MCE045G	0.45 μ m, 25mm
FBS30CA022G	0.22 μ m, 30mm	FBS30MCE022G	0.22 μ m, 30mm
FBS30CA045G	0.45 μ m, 30mm	FBS30MCE045G	0.45 μ m, 30mm

FilterBio®

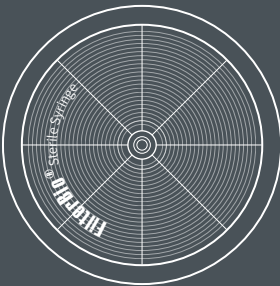
Sterile Syringe Filter

FilterBio® Sterile syringe filters are available with Polyethersulfone (PES), Polyesteramide(Nylon), Cellulose Acetate(CA), Polytetrafluoroethylene(PTFE), Polyvinylidene Fluoride(PVDF). And each filter is individually packed and sterilized by Gamma Radiation. Every Syringe Filter is printed with expiry date for easy QC tracking.

- Protein and enzyme filtration
- Hybridization buffers
- Other aqueous solutions



APPLICATION



Tissue culture media preparation

&

Sterile filtration and clarification
of biological fluids

—

Probe solutions

PRODUCT INFORMATION			
Item		Description	
PES Syringe Filter		Nylon66 Syringe Filter	
FBS13PES022S (100pcs/pk)	0.22 μ m, 13mm	FBS13NY022S (100pcs/pk)	0.22 μ m, 13mm
FBS13PES045S (100pcs/pk)	0.45 μ m, 13mm	FBS13NY045S (100pcs/pk)	0.45 μ m, 13mm
FBS25PES022S (50pcs/pk)	0.22 μ m, 25mm	FBS25NY022S (50pcs/pk)	0.22 μ m, 25mm
FBS25PES045S (50pcs/pk)	0.45 μ m, 25mm	FBS25NY045S (50pcs/pk)	0.45 μ m, 25mm
FBS30PES022S (50pcs/pk)	0.22 μ m, 30mm	FBS30NY022S (50pcs/pk)	0.22 μ m, 30mm
FBS30PES045S (50pcs/pk)	0.45 μ m, 30mm	FBS30NY045S (50pcs/pk)	0.45 μ m, 30mm
CA Syringe Filter		MCE Syringe Filter	
FBS13CA022S (100pcs/pk)	0.22 μ m, 13mm	FBS13MCE022S (100pcs/pk)	0.22 μ m, 13mm
FBS13CA045S (100pcs/pk)	0.45 μ m, 13mm	FBS13MCE045S (100pcs/pk)	0.45 μ m, 13mm
FBS25CA022S (50pcs/pk)	0.22 μ m, 25mm	FBS25MCE022S (50pcs/pk)	0.22 μ m, 25mm
FBS25CA045S (50pcs/pk)	0.45 μ m, 25mm	FBS25MCE045S (50pcs/pk)	0.45 μ m, 25mm
FBS30CA022S (50pcs/pk)	0.22 μ m, 30mm	FBS30MCE022S (50pcs/pk)	0.22 μ m, 30mm
FBS30CA045S (50pcs/pk)	0.45 μ m, 30mm	FBS30MCE045S (50pcs/pk)	0.45 μ m, 30mm
PVDF Syringe Filter(Hydrophobic)		PVDF Syringe Filter(Hydrophilic)	
FBS13PVDF022HS (100pcs/pk)	0.22 μ m, 13mm	FBS13PVDF022LS (100pcs/pk)	0.22 μ m, 13mm
FBS13PVDF045HS (100pcs/pk)	0.45 μ m, 13mm	FBS13PVDF045LS (100pcs/pk)	0.45 μ m, 13mm
FBS25PVDF022HS (50pcs/pk)	0.22 μ m, 25mm	FBS25PVDF022LS (50pcs/pk)	0.22 μ m, 25mm
FBS25PVDF045HS (50pcs/pk)	0.45 μ m, 25mm	FBS25PVDF045LS (50pcs/pk)	0.45 μ m, 25mm
FBS30PVDF022HS (50pcs/pk)	0.22 μ m, 30mm	FBS30PVDF022LS (50pcs/pk)	0.22 μ m, 30mm
FBS30PVDF045HS (50pcs/pk)	0.45 μ m, 30mm	FBS30PVDF045LS (50pcs/pk)	0.45 μ m, 30mm
PTFE Syringe Filter (Hydrophobic)		PTFE Syringe Filter (Hydrophilic)	
FBS13PTFE022HS (100pcs/pk)	0.22 μ m, 13mm	FBS13PTFE022LS (100pcs/pk)	0.22 μ m, 13mm
FBS13PTFE045HS (100pcs/pk)	0.45 μ m, 13mm	FBS13PTFE045LS (100pcs/pk)	0.45 μ m, 13mm
FBS25PTFE022HS (50pcs/pk)	0.22 μ m, 25mm	FBS25PTFE022LS (50pcs/pk)	0.22 μ m, 25mm
FBS25PTFE045HS (50pcs/pk)	0.45 μ m, 25mm	FBS25PTFE045LS (50pcs/pk)	0.45 μ m, 25mm
FBS30PTFE022HS (50pcs/pk)	0.22 μ m, 30mm	FBS30PTFE022LS (50pcs/pk)	0.22 μ m, 30mm
FBS30PTFE045HS (50pcs/pk)	0.45 μ m, 30mm	FBS30PTFE045LS (50pcs/pk)	0.45 μ m, 30mm

NOTE
Various membrane medium with pp or glass fiber pre-filter are available.OEM service can be provided.

FilterBio®

Top Sterile Syringe Filter

FilterBio® Top Sterile syringe filter is manufactured with membrane and acrylic housing. Diameter of 25mm and 33mm can be provided. For the most popular PES syringe filter, we take the modified PES Membrane, which has better flow rate and low protein adsorption ability. Each filter is individually packed and sterilized by Gamma Radiation. Every Syringe Filter is printed with expiry date for easy QC tracking.

- APPLICATION
- Sterilize tissue culture media
 - Virus suspensions
 - Protein and enzyme filtration
 - DNA, and other aqueous solutions

- FEATURES
- Modified PES Membrane provided
 - Acrylic Housing
 - 33mm Diameter for high Flow Rate



PRODUCT INFORMATION			
Item		Description	
Top PES Sterile 50/pk		Top CA Sterile 50/pk	
FBS25TPES022S	0.22 μ m, 25mm	FBS25TCA022S	0.22 μ m, 25mm
FBS25TPES045S	0.45 μ m, 25mm	FBS25TCA045S	0.45 μ m, 25mm
FBS33TPES022S	0.22 μ m, 33mm	FBS33TCA022S	0.22 μ m, 33mm
FBS33TPES045S	0.45 μ m, 33mm	FBS33TCA045S	0.45 μ m, 33mm

Top MCE Sterile 50/pk		Top Hydrophilic PTFE Sterile 50/pk	
FBS25TMCE022S	0.22 μ m, 25mm	FBS25TPTFE022LS	0.22 μ m, 25mm
FBS25TMCE045S	0.45 μ m, 25mm	FBS25TPTFE045LS	0.45 μ m, 25mm
FBS33TMCE022S	0.22 μ m, 33mm	FBS33TPTFE022LS	0.22 μ m, 33mm
FBS33TMCE045S	0.45 μ m, 33mm	FBS33TPTFE045LS	0.45 μ m, 33mm

NOTE

Various membrane medium with pp or glass fiber pre-filter are available.OEM service can be provided.

FilterBio®

4mm Syringe Filter

FilterBio 4mm syringe filter could remove microorganisms, particles, precipitates, and undissolved powders larger than nominal pore size, such as 0.22 micron (μm). The 4mm syringe filter is non-pyrogenic and non-toxic. The special construction usually only allows 2ml liquid for filtration, so it’s specially suitable for the small volume filtration.

FEATURES

Smart and disposable
Specially for Small volume liquids



TECHNICAL SPECIFICATIONS			
Parameters		4mm	
Effective Filtration Area(cm2)	0.12	Sample volume (ml)	<2
Maximum Pressure	75psi (5.0 bar) at 20 ° C	Connectors	Inlet: Female Luer Lock Outlet: Male Slip Luer
Maximum Operating Temperature	50 ° C	Flow Direction	Inlet: Female Luer Lock Outlet: Male Slip Luer (MSL)
Materials of Construction	Housing: Polypropylene	Holdup volume (μ l)	<2

PRODUCT INFORMATION			
Item	Description	Item	Description
NY 200/pk		NY Sterile 200/pk	
FBS4NY022	0.22 μ m, 4mm	FBS4NY022S	0.22 μ m, 4mm
FBS4NY045	0.45 μ m, 4mm	FBS4NY045S	0.45 μ m, 4mm
PES 200/pk		PES Sterile 200pk	
FBS4PES022	0.22 μ m, 4mm	FBS4PES022S	0.22 μ m, 4mm
FBS4PES045	0.45 μ m, 4mm	FBS4PES045S	0.45 μ m, 4mm
CA 200/pk		CA Sterile 200/pk	
FBS4CA022	0.22 μ m, 4mm	FBS4CA022S	0.22 μ m, 4mm
FBS4CA045	0.45 μ m, 4mm	FBS4CA045S	0.45 μ m, 4mm
Hydrophobic PTFE 200/pk		Hydrophobic PTFE sterile 200/pk	
FBS4PTFE022H	0.22 μ m, 4mm	FBS4PTFE022HS	0.22 μ m, 4mm
FBS4PTFE045H	0.45 μ m, 4mm	FBS4PTFE045HS	0.45 μ m, 4mm
Hydrophilic PTFE 200/pk		Hydrophilic PTFE Sterile 200/pk	
FBS4PTFE022L	0.22 μ m, 4mm	FBS4PTFE022LS	0.22 μ m, 4mm
FBS4PTFE045L	0.45 μ m, 4mm	FBS4PTFE045LS	0.45 μ m, 4mm
MCE 200/pk		MCE Sterile 200/pk	
FBS4MCE022	0.22 μ m, 4mm	FBS4MCE022S	0.22 μ m, 4mm
FBS4MCE045	0.45 μ m, 4mm	FBS4MCE045S	0.45 μ m, 4mm
hydrophobic PVDF 200/PK		Hydrophobic PVDF sterile 200/PK	
FBS4PVDF022H	0.22 μ m, 4mm	FBS4PVDF022HS	0.22 μ m, 4mm
FBS4PVDF045H	0.45 μ m, 4mm	FBS4PVDF045HS	0.45 μ m, 4mm
Hydrophilic PVDF 200/pk		Hydrophilic PVDF sterile 200/PK	
FBS4PVDF022L	0.22 μ m, 4mm	FBS4PVDF022LS	0.22 μ m, 4mm
FBS4PVDF045L	0.45 μ m, 4mm	FBS4PVDF045LS	0.45 μ m, 4mm

NOTE

Various membrane medium with pp or glass fiber pre-filter are available. OEM service can be provided.

FilterBio®

50mm Vent Filter

FilterBio® 50mm Vent Filter is a sterilizing filter for aqueous solutions and venting. It can remove microorganisms, particles, precipitates, and undissolved powders larger than nominal pore size (e.g. 0.22 µm). The 50mm vent filter is non-pyrogenic and non-toxic. The special structure allows minimal hold-up volume and particle shedding, making this vent filter ideally suited for the critical needs of the pharmaceutical and biotechnology industries.

FilterBio®



SPECIFICATIONS

Materials of Structure	Filter Medium: PTFE or PES for GMP on a polypropylene support Housing: Polypropylene
Temperature limit	130 ° C (266 ° F) maximum Pressure limit at ambient temperature 60psi (4.1bar)
Dimensions	Inlet to outlet 45 mm (1.77 in.) Diameter 56.2 mm (2.21in.) Filtration area 17.2 cm ² (2.6 in ²) Pore size 0.22 µ m,0.45 µ m,0.8 µ m, 1.2 µ m
Connections	Outlet : Stepped hose barbs, 6.6 - 11.1mm (1/4 - 3/8in.) diameter Inlet : Stepped hose barbs, 6.6 - 11.1mm (1/4 - 3/8in.) diameter

FEATURES

- Small volume liquids
- Sterile venting of small containers
- Sterile venting of small fermenters
- General sterile filtration of gases and air

APPLICATION

- Superior flow rate and high throughputs
- Smart and disposable
- Scalable and reusable
- Good resistance to pressure

PRODUCT INFORMATION

Item	Description
50mm vent filter 25/pk	
FBS50PTFE022H	Hydrophobic PTFE, 0.22µ m 50mm
FBS50PTFE045H	Hydrophobic PTFE, 0.45µ m 50mm
FBS50PTFE100H	Hydrophobic PTFE , 1.0µ m 50mm
FBS50PTFE022HS	Sterile Hydrophobic PTFE, 0.22µ m 50mm
FBS50PTFE045HS	Sterile Hydrophobic PTFE, 0.45µ m 50mm
FBS50PTFE100HS	Sterile Hydrophobic PTFE, 1.0µ m 50mm
FBS50PES022	PES, 0.22µ m 50mm
FBS50PES045	PES, 0.45µ m 50mm
FBS50PES022S	Sterile PES , 0.22µ m 50mm
FBS50PES045S	Sterile PES, 0.45µ m 50mm
FBS50NY022	Nylon, 0.22µ m 50mm
FBS50NY045	Nylon, 0.45µ m 50mm
FBS50NY022S	Sterile Nylon, 0.22µ m 50mm
FBS50NY045S	Sterile Nylon, 0.45µ m 50mm
FBS50PVDF022H	Hydrophobic PVDF, 0.22µ m 50mm
FBS50PVDF045H	Hydrophobic PVDF , 0.45µ m 50mm
FBS50PVDF022HS	Sterile Hydrophobic PVDF, 0.22µ m 50mm
FBS50PVDF045HS	Sterile Hydrophobic PVDF, 0.45µ m 50mm

FilterBio® Disc Membrane Filter

Nylon Membrane Filter

- Hydrophilic
- High protein binding capacity
- Pore size: 0.22 μ m-5.0 μ m, Diameter: 13mm-293mm
- Compatible with aqueous and alcoholic solutions and solvents; suitable for HPLC

Hydrophilic PTFE Membrane Filter

- Hydrophilic
- Compatible with aqueous, organic solvents, strong acids, and alkalis.
- Pore size: 0.22 μ m, 0.45 μ m, Diameter: 13mm-142mm
- High temperature resistance

Hydrophobic PTFE Membrane Filter

- PTFE membrane with supporting layer polypropylene
- Suitable for applications involving aggressive organic solvents, strong acids, and alkalis
- Pore size: 0.22 μ m-5.0 μ m, Diameter: 13mm-293mm
- Hydrophobic nature of the membrane has applications for air and gas sterilization
- High temperature resistance



PES Membrane Filter


- Inherently hydrophilic
- Low protein binding
- Pore size: 0.1 μ m-5 μ m Diameter: 13mm-293mm
- Good chemical compatibility
- Superior thermo stability

MCE Membrane Filter

- A mixture of nitrocellulose and cellulose acetate
- Naturally hydrophilic
- Available in both supported or non-supported
- Pore size: 0.22 μ m-3.0 μ m, Diameter: 13mm-293mm
- High porosity provides superior flow rates
- Ideal for use in lateral flow assays and dot/slot blotting

Hydrophobic PVDF Membrane Filter

- Wide chemical compatibility
- Excellent mechanical properties
- Pore size: 0.22μm, 0.45μm, Diameter: 13mm-293mm
- High temperature capabilities
- Low extractable levels



Hydrophilic PVDF Membrane Filter

- Hydrophilic
- Compatible with aqueous, organic solvents, strong acids, and alkalis.
- Pore size: 0.22μm, 0.45μm, Diameter: 13mm-142mm
- High temperature resistance

CA Membrane Filter

- Hydrophilic
- Very low protein binding capacity
- Pore size: 0.22μm, 0.45μm, 0.80μm, Diameter: 13mm-293mm
- High physical strength
- Strength and dimension stability

CN Membrane Filter

- Hydrophilic Cellulose Nitrate, fragile
- Pore size: 0.22μm, 0.45μm, 0.80μm, Diameter: 47mm
- High physical strength

PP Membrane Filter

- Hydrophobic Polypropylene
- High Density
- High dirty holding capacity

GF Membrane Filter

- Hydrophilic
- Binder Free
- Pore size: 1.20μm GFC, 0.70μm GFF, 1.0μm GFB, Diameter: 21mm-293mm

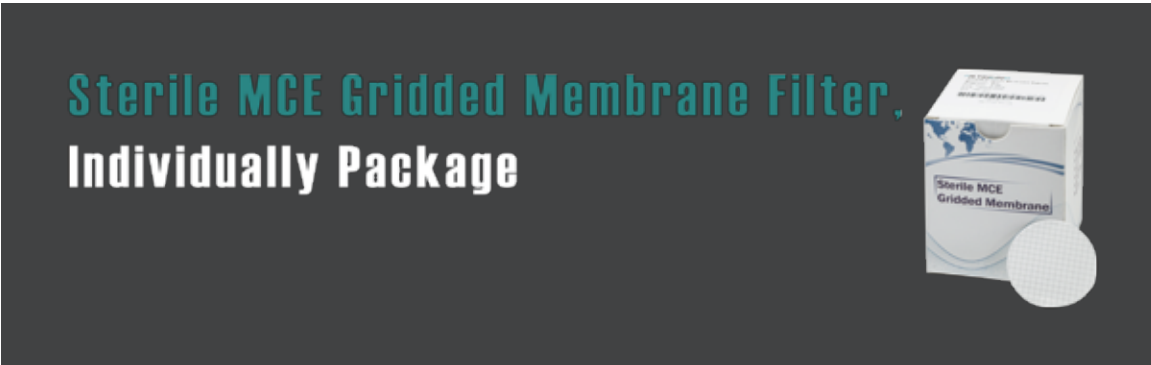
PRODUCT INFORMATION (SOME OF THE PRODUCTS)				
Nylon		25mm, 0.22 μ m	200pcs/pk	FBM025NY022
		47mm, 0.45 μ m	200pcs/pk	FBM047NY045
		90mm, 0.45 μ m	100pcs/pk	FBM090NY045
PTFE	Hydrophobic	47mm, 0.45 μ m	200pcs/pk	FBM047PTFE045H
	Hydrophilic	47mm, 0.22 μ m	200pcs/pk	FBM047PTFE045L
PES		47mm, 0.45 μ m	200pcs/pk	FBM047PES045
		142mm, 0.22 μ m	50pcs/pk	FBM142PES022
		293mm, 0.45 μ m	25pcs/pk	FBM293PES045
MCE		13mm, 0.22 μ m	400pcs/pk	FBM013MCE022
		47mm, 0.45 μ m	200pcs/pk	FBM047MCE045
		142mm, 0.45 μ m	100pcs/pk	FBM142MCE045
PVDF	Hydrophobic	47mm, 0.45 μ m	200pcs/pk	FBM047PVDF045H
	Hydrophilic	47mm, 0.22 μ m	200pcs/pk	FBM047PVDF045L
CA		47mm, 0.45 μ m	200pcs/pk	FBM047CA045
		90mm, 0.22 μ m	100pcs/pk	FBM090CA022
		142mm, 0.45 μ m	50pcs/pk	FBM142CA045
CN		25mm, 0.22 μ m	200pcs/pk	FBM025CN022
		47mm, 0.47 μ m	200pcs/pk	FBM047CN045
GF		47mm, 1.2 μ m	100pcs/pk	FBM047GF120
		47mm, 0.7 μ m	100pcs/pk	FBM047GF070
PP		47mm, 0.22 μ m	200pcs/pk	FBM047PP022
		47mm, 1.0 μ m	200pcs/pk	FBM047PP100

FilterBio®

Sterile Gridded Membrane Filter

FilterBio® MCE Gridded Membrane Filter mixed cellulose ester and cellulose acetate is an unsupported, naturally hydrophilic membrane. It's ideal for Colony Counting and Sterility Testing.

FilterBio® MCE Gridded Membrane Filter is composed of cellulose acetate and cellulose nitrate, making it one of the most widely used membranes in analytic and research applications.



FEATURES

- Hydrophilic.
- Gridded membrane perfect for microbiology analysis.
- 0.22µm-0.80µm pore size can be provided.
- Gamma irradiated for sterilization.
- Individually packed with easy-open separator paper.

APPLICATION

- Sterilizing filtration, air monitoring, particle monitoring, particle removal, bioassay.
- Clarification of aqueous removal and analysis, microbiology analysis.
- Particle monitoring, particle removal, dairy microbiology, retention of yeast, molds and algae.
- QC analysis of fluid holding, particle collection and analysis.

PRODUCT INFORMATION

Item	Description	Item	Description
Sterile MCE, White, Individually Packed, 200/pk			
FBM025MCE022GS	0.22µm 25mm	FBM050MCE022GS	0.22µm 50mm
FBM025MCE045GS	0.45µm 25mm	FBM050MCE045GS	0.45µm 50mm
FBM025MCE080GS	0.80µm 25mm	FBM050MCE080GS	0.80µm 50mm
FBM047MCE022GS	0.22µm 47mm	FBM047MCE022GSP	0.22µm 47mm, With Pad, 50/pk
FBM047MCE045GS	0.45µm 47mm	FBM047MCE045GSP	0.45µm 47mm, With Pad, 50/pk
FBM047MCE080GS	0.80µm 47mm	FBM047MCE080GSP	0.80µm 47mm, With Pad, 50/pk
Sterile MCE, Black, Individually Packed, 200/pk			
FBM025MCE022GBS	0.22µm 25mm	FBM047MCE080GBS	0.80µm 47mm
FBM025MCE045GBS	0.45µm 25mm	FBM050MCE022GBS	0.22µm 50mm
FBM025MCE080GBS	0.80µm 25mm	FBM050MCE045GBS	0.45µm 50mm
FBM047MCE022GBS	0.22µm 47mm	FBM050MCE080GBS	0.80µm 50mm
FBM047MCE045GBS	0.45µm 47mm		



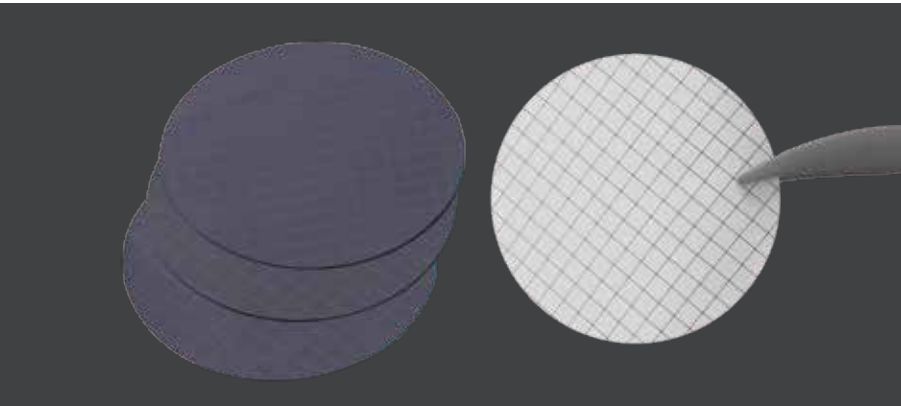
PRODUCT INFORMATION

Item	Description
Sterile MCE , White, Continuous Individually Packed, 150pcs/pk	
FBM047MCE022GSC	0.22μ m 47mm
FBM047MCE045GSC	0.45μ m 47mm
FBM047MCE080GSC	0.80μ m 47mm
Sterile MCE , Black, Continuous Individually Packed, 150pcs/pk	
FBM047MCE022GBSC	0.22μ m 47mm
FBM047MCE045GBSC	0.45μ m 47mm
FBM047MCE080GBSC	0.80μ m 47mm



FEATURES

- Hydrophilic.
- Gridded membrane perfect for microbiology analysis.
- 0.22μm, 0.45μm, 0.80μm pore size and 47mm diameter can be provided.
- Gamma irradiated for sterilization.
- Continuous Individually packed, applicable for Millipore Dispenser.



Sterile CN Gridded Membrane Filter

FilterBio® CN Gridded Membrane Filter is hydrophilic cellulose nitrate membrane, Gamma sterilization and individually packed. It is ideal for a nalytication like microor-ganism counts and microbiology analysis

PRODUCT INFORMATION






Item	Description
Sterile CN , White, Individually Packed, 200pcs/pk	
FBM047CN022GS	0.22μ m 47mm
FBM047CN045GS	0.45μ m 47mm
FBM047CN080GS	0.80μ m 47mm
Sterile CN, Black, Individually Packed, 200pcs/pk	
FBM047CN022GBS	0.22μ m 47mm
FBM047CN045GBS	0.45μ m 47mm
FBM047CN080GBS	0.80μ m 47mm

FilterBio®

Vacuum Filtration System

—— Glass Solvent Filter/Glass Filter Holder

Glass solvent filter and glass filter holder are used for filtration of mobile phase of HPLC, particulate and microbiological contamination. They are the basic instruments in the chemistry lab. Borosilicate glass parts are endurable with many kinds of aqueous, organic or corrosive liquids for analysis. Also can be autoclavable at 121°C(250°F) for sterilization.

TECHNICAL SPECIFICATIONS					
Name	Type	Components	Filter size	Prefilter size	Grad. volume
Solvent Filtration Apparatus	FB-G-01 FB-G-02	graduated glass funnel, fritted glass base with side arm, joint flask, anodized aluminum clamp, vacuum hose	50mm/ 47mm		300ml/1L 500ml/2L
Glass Funnel	G-30 G-50	Glass Funnel	300ml 500ml		300ml 500ml
Glass Solvent Collection	FB-1 FB-2	Glass Solvent Collection	1000ml 2000ml		1000ml 2000ml
Filter head	FB-G-30 FB-G-50	Glass Funnel Fritted glass base Silicone stopper Anodized Aluminum Clamp	50mm/ 47mm		300ml 500ml
Clamp	Clamp				

—— Vacuum Filtration System

The stainless steel manifold for 3 or 6 filtration units is fitted with stainless steel units. The apparatus can be autoclaved and sterilized by dry heat at 180°C.

Aluminum clip is designed into a reasonable closely way, with clip filter glass and intermediate filtration heads together, which ensure strict seal without leakage. There is no cleaning corner exist for stockpile liquid and easy to clean. Stainless steel material makes the analytic results more stable and reliable due to its characteristics of acid proof and alkali, as well as hard to corrosion.







This apparatus is suitable only for vacuum operation. Flushing tubes should not be used at the pressure of exceeding 1.3 bar (300 mbar over-pressure).

APPLICATION

- Microbiological quality control (e.g. Escherichia coli detection), biochemistry, hydrobiology.
- Residue analysis.
- Serial filtration carried out rapidly and easily with a common drainage outlet.
- Drinks (e.g. cold sludge in beer), foodstuffs (e.g. ice cream), cosmetics, pharmaceuticals, water, wastewater.
- Precipitate analysis, contamination tests and so on.

FEATURES

- Each station uses separate control valve for independent operation, easy to use and disinfect with a high efficiency.
- This system can filtrate three or six samples at the same time at low rate, with a high sensitivity.
- Sturdy won't tip when full loaded due to the units with low center of gravity.
- Anodized aluminium handles on both ends are designed for positioning on bench top.
- All MVF series vacuum filtration devices are made of stainless steel which is suitable for filtration, especially in the microbiological field.

TECHNICAL SPECIFICATIONS		
Type	Components	Picture
FB-MC-G1	1) Stainless Steel Manifold 2) One Glass Filtration Units 3) Two pieces of hosepipe	
FB-MC-G3	1) Stainless Steel Manifold 2) Three Glass Filtration Units 3) Two pieces of hosepipe	
FB-MC-G6	1) Stainless Steel Manifold 2) Six Glass Filtration Units 3) Two pieces of hosepipe	
FB-MC-S1	1) Stainless Steel Manifold 2) One Stainless Steel Filtration Units 3) Two pieces of hosepipe	
FB-MC-S3	1) Stainless Steel Manifold 2) Three Stainless Steel Filtration Units 3) Two pieces of hosepipe	
FB-MC-S6	1) Stainless Steel Manifold 2) Six Stainless Steel Filtration Units 3) Two pieces of hosepipe	

FilterBio® Roll Membrane

Nylon Roll Membrane

Nylon membrane can be used to filter all aqueous and the majority of solvent solutions due to their wide chemical compatibility range and naturally hydrophilic characteristics.

Nylon membrane is manufactured by FilterBio Membrane using a unique impregnation process that eliminates cracking, tearing, breaking and distortion when handled or creased. The exclusive impregnation process results in a nylon filter with uniform pore sizes and consistent flow rates for continuously reliable performance.

Since Nylon membrane filters are naturally hydrophilic, wetting agents are not used during manufacturing, resulting in a very low level of extractables, making them ideally suited for HPLC solvent filtration, HPLC sample preparation, mobile-phase filtration and critical aqueous applications. They have a high nucleic acid binding capacity of 350 µg/cm2 and Bovine Serum Albumin (BSA) protein binding of 120 µg/cm2 compared to 80-100 µg/cm2 for most cellulosic membranes under the same BSA binding conditions.

SPECIFICATIONS

- Color: white
- Surface: plain
- Sterilization: Gamma or EO compatible
- Wettability: hydrophilic
- Operating temperature: 75 °C max



TECHNICAL SPECIFICATIONS			
Pore Size (μ m)	Bubble Point (Mpa)	Typical Flow Rate (mL/min/cm2@0.7kg/cm2)	Thickness (μ m)
0.22	0.28	9	110-150
0.45	0.2	16	110-150

FEATURES

- High strength
- Naturally hydrophilic
- PET(polyester) or PP(polypropylene) supported
- Wide chemical compatibility range :compatible with many aqueous and alcoholic solvents and solutions
- Pure: negligible organic extractables

APPLICATION

- HPLC sample preparation
- Sterilization, clarification of aqueous and organic solvent solutions
- Vacuum degassing
- Filtration of tissue culture media, microbiological media, buffers, and solutions

PES Roll Membrane

PRODUCE DESCRIPTION

The highly asymmetrical pore structure of our Micro PES flat membrane offers a high dirt loading capacity, increasing the filtration performance to give higher throughputs and higher flow rates than symmetrical membranes.

FEATURES AND BENEFITS

- High flow rates and throughputs due to a highly asymmetric pore structure
- Inherently hydrophilic
- Low protein binding characteristics
- Good chemical compatibility
- Superior thermo stability

APPLICATION

- Raki and beer filtration
- Especial chemical reagent filtration
- Liquid of high temperature filtration



TECHNICAL PARAMETER			
Item	Pore Size(μ m)	Bubble Point (Bar)	Min TMF (ml/min cm2 bar)
PES	0.04	2.8	4
PES	0.1	2.8	10
PES	0.2	4.3	35
PES	0.45	3.0	60
PES	0.5	2.3	90
PES	0.65	1.9	90
PES	0.8	1.4	245
PES	1.2	1.0	260

PTFE Roll Membrane

PRODUCE DESCRIPTION

PTFE Membrane media for filtration is made of PTFE(polytetrafluoroethylene), are drawn 2-dimension. It is micro-pore film. The PTFE membrane was laminated with a great variety of fabric and paper. They are new filter media. Applied to extensive industries, including pharmacy, biochemistry, microelectronic, and lab material, etc. Directly and indirectly related to pharmacy, brewing, manufacture of pure water and special need water, beverage and dairy, chemical reagent, biochemical reagent, air filtration of fermentation tank in microelectronic, purification and filtration in microelectronic plants, filtration and separation of antibacterial fluid, production of medicine, air conditioning of hospitals and commercial buildings.

FEATURES AND BENEFITS

- PTFE membrane with supporting layer polyester or polypropylene.
- The PTFE membrane can effectively filtrate microorganism and other particulates.
- Wide chemical compatibility
- High temperature resistance
- Low starting resistance

TECHNICAL PARAMETER						
Item	Substrate	Thickness (μ m)	Pore Size	Bubble Point (Mpa)	Air Perm(L/cm2.min) (p=0.01MPa)	Maximum Temperature(°C)
PTFE	PP	160±10	0.45	>0.6	>7	150-170
PTFE	PP	160±10	0.22	>1	>3.5	150-170

FilterBio®
TLC Plate

Using high-purity thin-layer chromatography silica gel powder as adsorbent and new organic adhesives, the fully-automatic coating equipment was used to evenly apply the silica gel to a thin-layer chromatographic separation material made of glass or aluminum foil.



Product category

- Analysis plate
- Preparative plate
- Aluminum foil plate

The followed is the parameter of conventional product, specific request can be customized.			
Ttem	Analysis plate	Preparation plate	Aluminum foil plate
Thickness	0.2-0.25mm	0.4-0.5mm 0.9-1.0mm	0.15-0.2mm
Particle size	5-8μ m	5-8μ m	5-8μ m
PH	6.2-6.8	6.2-6.8	6.2-6.8
S-parameter	SX=3	SX=3	SX=3

APPLICATION

The products are widely used in pharmaceutical, chemical, biochemical, environmental protection, public security system of scientific research and testing. The product has good separation effect for some trace compounds and complex compounds, and it is very suitable for qualitative and rapid detection.

CHARACTERISTIC

- Uniform particle size, low metal content.
- New adhesive, high temperature, stable quality.
- Fully automatic paving equipment, uniform thickness, avoid manual error.
- The separation effect is good, can effectively separate 16 kinds of substances.



ORDERING INFORMATION

Item	Description	Packaging
Glass backed TLC Plate		
FBTLC-SG-25100	Silica gel 60 plate, glass backed, 2.5*10cm	320pcs/pk
FBTLC-SG-50100	Silica gel 60 plate, glass backed, 5*10cm	160pcs/pk
FBTLC-SG-100100	Silica gel 60 plate, glass backed, 10*10cm	80pcs/pk
FBTLC-SG-50200	Silica gel 60 plate, glass backed, 5*20cm	80pcs/pk
FBTLC-SG-100200	Silica gel 60plate, glass backed, 10*20cm	40pcs/pk
FBTLC-SG-200200	Silica gel 60 plate, glass backed, 20*20cm	20pcs/pk
Aluminium backed TLC Plate		
FBTLC-SG-25100-F	Silica gel 60 plate, glass backed, 2.5*10cm, with F254 Indicator	320pcs/pk
FBTLC-SG-50100-F	Silica gel 60 plate, glass backed, 5*10cm, with F254 Indicator	160pcs/pk
FBTLC-SG-100100-F	Silica gel 60 plate, glass backed, 10*10cm, with F254 Indicator	80pcs/pk
FBTLC-SG-50200-F	Silica gel 60 plate, glass backed, 5*20cm, with F254 Indicator	80pcs/pk
FBTLC-SG-100200-F	Silica gel 60 plate, glass backed, 10*20cm, with F254 Indicator	40pcs/pk
FBTLC-SG-200200-F	Silica gel 60 plate, glass backed, 20*20cm, with F254 Indicator	20pcs/pk
Preparative Plate(PLC Plate)		
FBPLC-SG-200200-F	Silica gel PLC plate, glass backed, 20*20cm, coating thickness: 0.5um, with F254 Indicator	20pcs/pk

Chemical Compatibility Chart

	Nylon	PTFE	MCE	GF	PES	CA	PVDF
ACIDS							
Acetic, Glacial	L	R	N	R	R	N	R
Acetic, 25%	R	R	N	R	R	R	R
Hydrochloric, Concentrated	N	R	N	R	R	N	R
Hydrochloric, 25%	N	R	N	R	R	N	R
Sulphuric, Concentrated	N	R	N	R	N	N	N
Sulphuric, 25%	N	R	R	R	R	R	R
Nitric, Concentrated	N	R	N	L	N	N	R
Nitric, 25%	N	R	R	L	R	N	R
Phosphoric, 25%	N	R	T	T	T	R	T
Formic, 25%	N	R	T	R	T	L	T
Trichloroacetic, 25%	N	R	T	T	T	R	T
ALOHOLS							
Methanol, 98%	R	R	N	R	R	R	R
Ethanol, 98%	R	R	L	R	R	R	R
Ethanol, 70%	L	R	R	R	R	R	R
Isopropanol	R	R	L	R	R	R	R
n-Propanol	R	R	L	R	R	R	R
Amyl Alcohol, Butanol	R	R	N	R	R	R	R
Benzyl Alcohol	R	R	R	T	R	L	R
Ethylene Glycol	R	R	L	R	R	R	R
Propylene Glycol	R	R	L	R	R	L	R
Glycerol	R	R	R	R	R	R	R
BASES							
Ammonium Hydroxide, 25%	R	R	N	R	R	R	L
Sodium Hydroxide,25%	R	R	N	R	R	T	R
HYDROCARBONS							
Hexane, Xylene	R	R	R	R	N	R	L
Toluene, Benzene	R	R	N	R	N	T	R
Kerosene, Gasoline	R	R	R	T	L	R	L
Tetralin, Decalin	T	R	N	T	T	T	R
Hexane, Xylene	R	R	R	R	X	R	L
HALOGENATED HYDROCARBONS							
Methylene Chloride	L	R	N	R	N	N	R
Chloroform	R	R	R	R	N	N	R

	Nylon	PTFE	MCE	GF	PES	CA	PVDF
KETONES							
Trichloroethylene	R	R	R	R	N	R	R
Monochlorobenzene	R	R	N	R	L	R	R
Freon	R	R	R	R	L	R	R
Carbon Tetrachloride	R	R	R	R	N	L	R
OXIDES--ETHERS							
Ethyl Ether	R	R	L	R	R	R	R
Dioxane	R	R	N	R	N	N	L
Tetrahydrofuran	R	R	N	R	N	N	L
Triethanolamine	R	R	L	R	T	R	T
Dimethylsulfoxide (DMSO)	R	R	N	R	N	N	N
Isopropyl Ether	T	R	N	R	R	R	R
SOLVENTS WITH NITROGEN							
Dimethyl Formamide	L	R	N	R	N	N	N
Diethylacetamide	R	R	N	R	T	N	T
Triethanolamine	R	R	L	R	T	R	T
Aniline	T	R	N	R	T	N	T
Pyridine	R	R	N	R	X	N	R
Acetonitrile	R	R	N	R	L	N	L
MISC.							
Phenol, Aqueous, 10%	T	R	R	R	N	N	L
Formaldehyde Solution, 30%	R	R	R	R	R	R	R
Hydrogen Peroxide, 30%	R	R	R	R	T	R	T
Silicone Oil & Mineral Oil	T	R	R	R	R	R	R

R= Recommended, N= Not Recommended , T= Test,
L= Limited Resistance (Testing before use is recommended)
PTFE=Polytetrafluoroethylene, MCE=Mixed Cellulose Ester,
GF=Glass Fiber, PES=Polyethersulfone,
CA=Cellulose Acetate, PVDF=Polyvinylidene Fluoride

