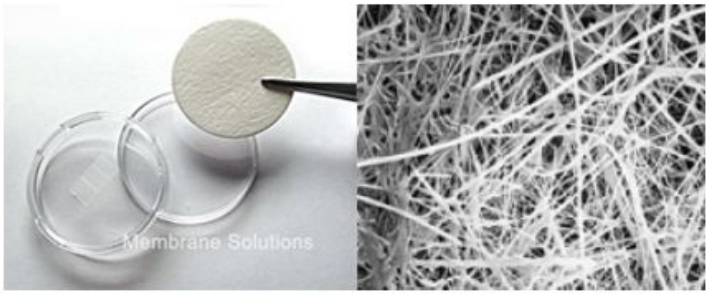
Membrane Solutions

MS® Glass Fiber Disc Membrane



Product Description:

- Meet the requirements for suspended solids testing, as described in Standard Methods for the Examination of Water and Wastewater, current edition.
- Reduce filtration costs and premature clogging when filtering difficult-to-filter or highly contaminated solutions.
- Extend filter life and make fewer final filter changes with high capacity prefilters.
- Eliminate sample contamination. Binder-free borosilicate glass fiber has no added extractables.
- Filter a wide range of particulate loads and viscous solutions with a selection of filter thicknesses to choose from.
- Excellent wet strength for each handling and filter integrity.

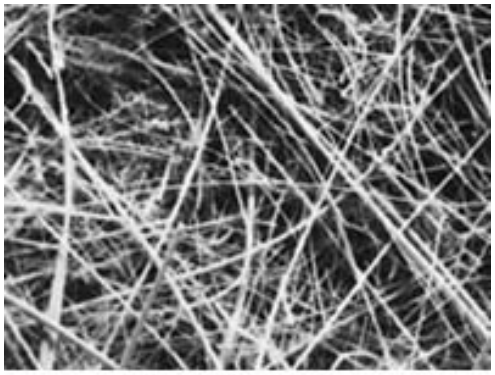
Features & Benefits:

- Glass fiber filter use this open-mesh weave of tough fiberglass to reinforce roof patches.
- Embed membrane in the patching cement, the cover with another layer of cement. Membrane will become a strong.
- reinforced bridge between patch and the rest of the roof.
- High dirt holding capacity.
- Biologically inert.
- Bonding reduces media migration.

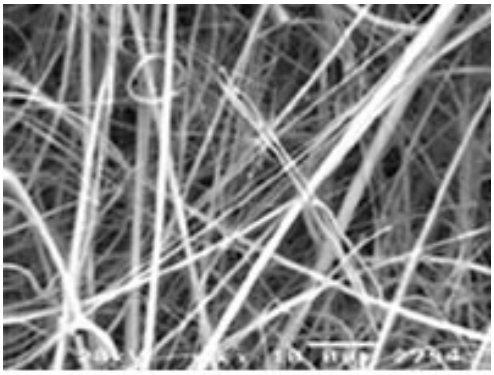
Applications:

- Water/air pollution analysis
- Liquid clarification
- Cell harvesting
- Protect final filter to extend its life
- Clarification of particulate laden solutions
- Filtration of long duration under pressure
- Binder increases high dirt loading capacity

MS® Glass Fiber Filter



Glass fiber 100x



Glass fiber 1000x

As one of depth-type media, high-efficiency and loading capacity make glass fiber filter perfect when used as prefilters. MS® Glass fiber filters are made by 100% borosilicate glass, with retention levels extended into the submicron range. These depth filters combine fast flow rate with high loading capacity and retention of fine particulates. The small diameter fibers give micro glass media superior efficiency and dirt holding as compared to cellulose and synthetic media. Besides prefilter, glass fiber can also be used in a wide variety of applications, such as water and air pollution analysis, liquid clarification, and cell harvesting.

Features

- Excellent wet strength.
- Very high efficiency and high dirty loading capacity.
- FDA 21 CFR and USP Class VI grades.
- Store indefinitely Unaffected by humidity.
- Lot-to-lot consistency.
- Binder and Binder-free option.

Application

- Bacteria and cyst removal
- Pre-filtration for membrane filter
- Water Clarification
- Water/air pollution analysis
- Cell harvesting
- Filtration of long duration under pressure
- Binder increases high dirt loading capacity

Technical Parameter

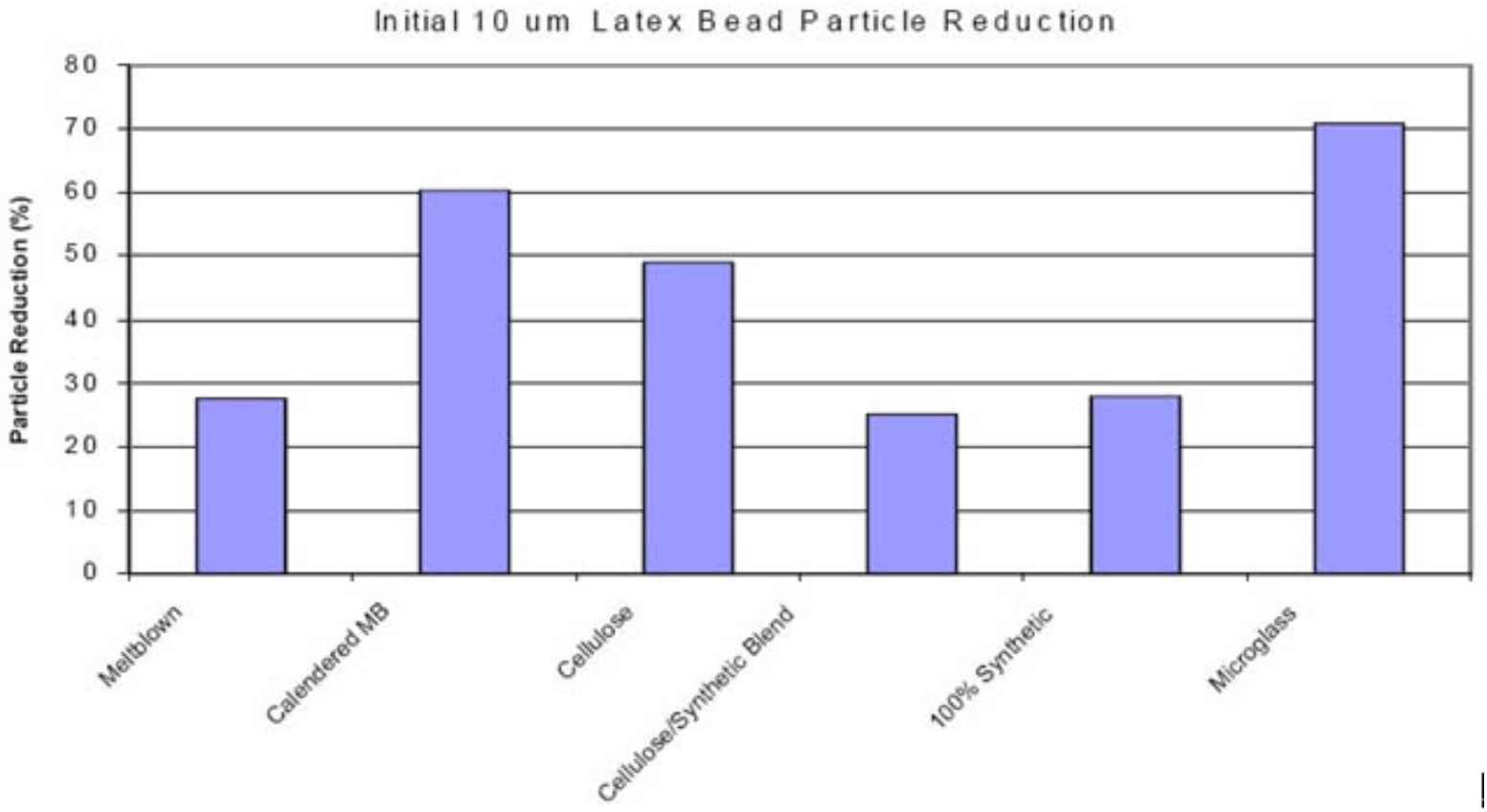
Glass Fiber Media Characterization

The below table lists the physical properties of a range of glass fiber media at 65 +/- 5 gsm with nominal ratings from 0.5•m to 10 •m. The retention of latex beads or fine test dust and the dirt holding capacity follow the standard non-woven testing trends. The glass fiber media utilizes small diameter fibers to achieve finer filtration.

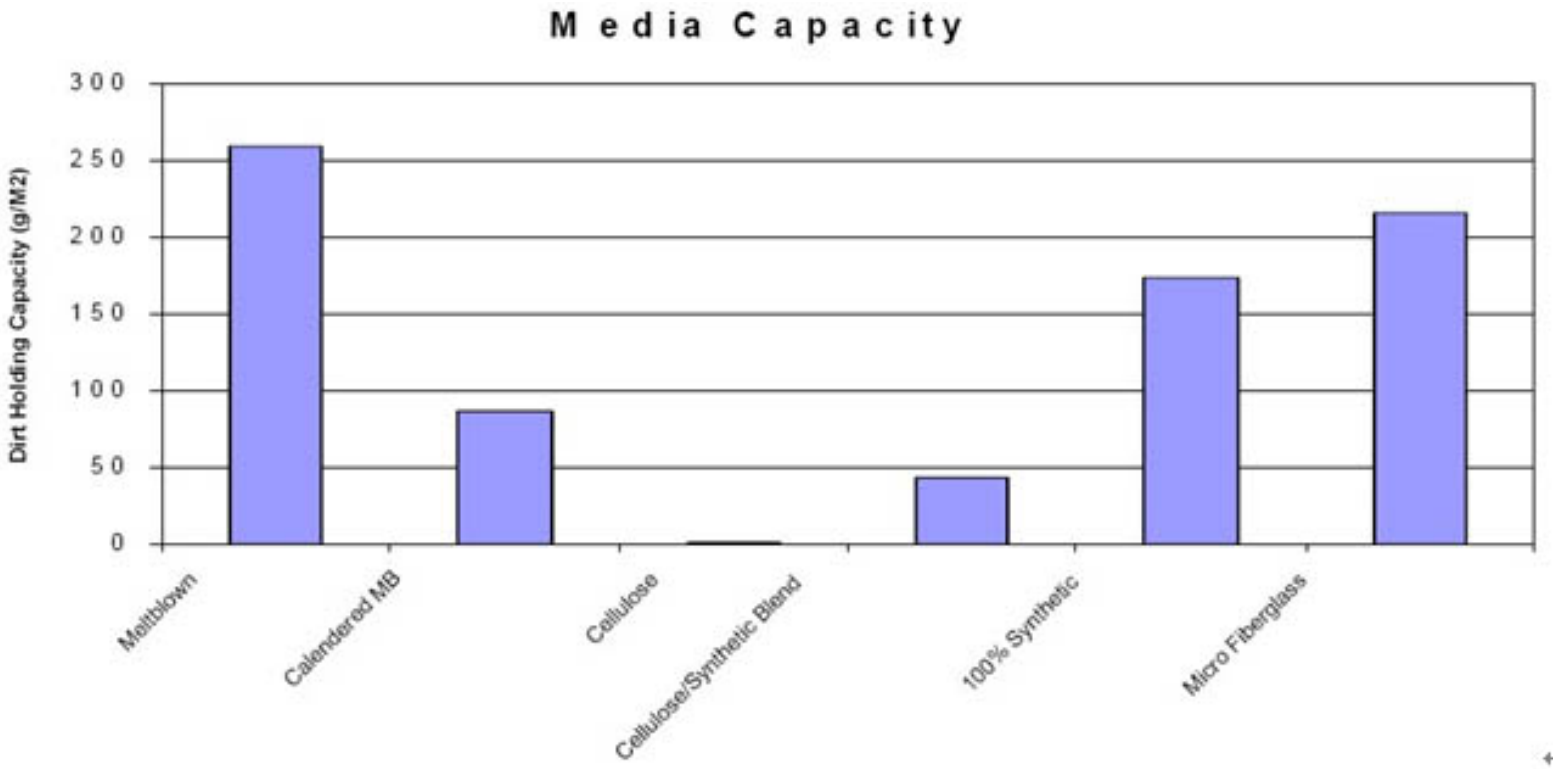
The pore size does appear to correlate to the efficiency and dirt holding.

Media Type (•m)	Thickness (•m)	Frazier (CFM)	MPS (•m)	Retention Latex Beads	ACFTD	DHC(mg/in^2)
0.5	400	65	1.1	99.99	>99	22
1	400	40	3.2	99.9	>99	50
3	400	13	5.6	99	>99	85
5	400	8	7.8	89	95	100
10	400	6	11.2	60	95	110

Comparison table



Particle Reduction



Particle Reduction

Media Type		Media Cost		Performance Cost	
		$/Kg	$/m²	$/1000L Liquid	$/KGpARTICLES
Dry Laid	Meltblown	4	0.5	>0.1	2
	Calendered MB	12	1.5	0.9	17
Wet Laid	Cellulose	3	0.4	12.6	253
	Cellulose/Syn.Blend	7	0.8	1.0	20
	100% Synthetic	10	1.2	0.4	7
	Micro Fiberglass	15	1.8	0.4	8

Order Information

Item#	Description	Pcs per box		
MFGF013050B	GF Binder Membrane Filter, Pore:0.5(•m), Diameter:13(mm)	200		

MFGF013100B	GF Binder Membrane Filter, Pore:1.0(•m), Diameter:13(mm)	200		
MFGF013200B	GF Binder Membrane Filter, Pore:2.0(•m), Diameter:13(mm)	200		
MFGF013200N	GF Binder-free Membrane Filter, Pore:2.0(•m), Diameter:13(mm)	200		
MFGF025050B	GF Binder Membrane Filter, Pore:0.5(•m), Diameter:25(mm)	200		
MFGF025100B	GF Binder Membrane Filter, Pore:1.0(•m), Diameter:25(mm)	200		
MFGF025200B	GF Binder Membrane Filter, Pore:2.0(•m), Diameter:25(mm)	200		
MFGF025200N	GF Binder-free Membrane Filter, Pore:2.0(•m), Diameter:25(mm)	200		
MFGF037080B	GF Binder Membrane Filter, Pore:0.8(•m), Diameter:37(mm)	200		
MFGF047050B	GF Binder Membrane Filter, Pore:0.5(•m), Diameter:47(mm)	200		
MFGF047070B	GF Binder Membrane Filter, Pore:0.7(•m), Diameter:47(mm)	200		
MFGF047080B	GF Binder Membrane Filter, Pore:0.8(•m), Diameter:47(mm)	200		
MFGF047100B	GF Binder Membrane Filter, Pore:1.0(•m), Diameter:47(mm)	200		
MFGF047200B	GF Binder Membrane Filter, Pore:2.0(•m), Diameter:47(mm)	200		
MFGF047200N	GF Binder-free Membrane Filter, Pore:2.0(•m), Diameter:47(mm)	200		

MFGF090050B	GF Binder Membrane Filter, Pore:0.5(•m), Diameter:90(mm)	100		
MFGF090100B	GF Binder Membrane Filter, Pore:1.0(•m), Diameter:90(mm)	100		
MFGF090200B	GF Binder Membrane Filter, Pore:2.0(•m), Diameter:90(mm)	100		
MFGF090200N	GF Binder-free Membrane Filter, Pore:2.0(•m), Diameter:90(mm)	100		
MFGF100090B	GF Binder Membrane Filter, Pore:0.9(•m), Diameter:100(mm)	100		
MFGF100120N	GF Binder-free Membrane Filter, Pore:1.2(•m), Diameter:100(mm)	200		
MFGF142050B	GF Binder Membrane Filter, Pore:0.5(•m), Diameter:142(mm)	50		
MFGF142100B	GF Binder Membrane Filter, Pore:1.0(•m), Diameter:142(mm)	50		
MFGF142200B	GF Binder Membrane Filter, Pore:2.0(•m), Diameter:142(mm)	50		
MFGF142200N	GF Binder-free Membrane Filter, Pore:2.0(•m), Diameter:142(mm)	50		
MFGF150090B	GF Binder Membrane Filter, Pore:0.9(•m), Diameter:150(mm)	50		
MFGF293022B	GF Binder Membrane Filter, Pore:0.5(•m), Diameter:293(mm)	25		
MFGF293045B	GF Binder Membrane Filter, Pore:0.45(•m), Diameter:293(mm)	25		
MFGF293050B	GF Binder Membrane Filter, Pore:0.5(•m), Diameter:293(mm)	25		

MFGF293100B	GF Binder Membrane Filter, Pore:1.0(•m), Diameter:293(mm)	25		
MFGF293200B	GF Binder Membrane Filter, Pore:2.0(•m), Diameter:293(mm)	25		
MFGF293200N	GF Binder-free Membrane Filter, Pore:2.0(•m), Diameter:293(mm)	25		