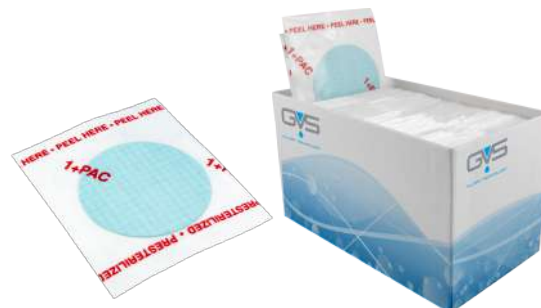
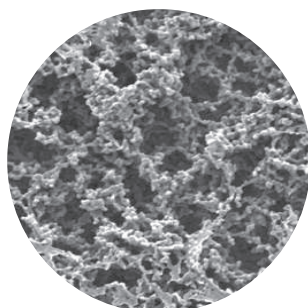


Mixed Cellulose Esters (MCE) Membrane



GVS Mixed Cellulose Esters (MCE) Filtration Membrane is an unsupported, hydrophilic membrane. Its rapid flow rate and high throughput make it ideal for use in diagnostic kit manufacturing applications.

Characteristics

- High flow rate: fast filtration rates
- Uniform pore structure: consistent flow and diffusion rates
- Lot-to-lot consistency

Typical Applications

- Aqueous filtration
- Sterility testing
- Gravimetric analysis with ashing technique
- Microbiological and particulate analysis
- Black for food and beverage applications

Consistent Uniformity Improves Control and Performance

GVS MCE Filtration Membranes are composed of a mixture of inert cellulose nitrate and cellulose acetate polymers. The uniform microporous structure of these

filters provides the fastest flow rates and highest throughputs available in a membrane filter. Because they are biologically inert, GVS MCE Filtration Membranes are ideal for a wide range of clarification, sterilization and analytical applications such as: microbiological analysis, clarification or sterilization of aqueous solutions, industrial hygiene applications, silt density index and particulate-matter analysis. For gravimetric analysis using ashing techniques, GVS MCE Membranes yield a residue or less than 0.045% of their initial weight. They are hydrophilic with a noncytotoxic wetting agent and yield extractable levels of less than 4% of their weight. These membranes are autoclavable at 121°C (250°F) for 20 minutes. Sterilized product lifetime is 24 months from sterilization date.

Product Characteristics

Sterilization	Gamma Irradiation or Ethylene Oxide (EtO)
USP Class VI testing	Passed
Thickness	100 - 190 µm
Sealing Compatibility	Ultrasonic, Heat, Radio Frequency and Insert Molding
Pore Size Range	0.1 to 8.0 µm
BSA Protein Binding	Approx. 160 µg/cm ² (depending on pore size)
Maximum Operating Temperature	356°F (180°C)

Performance

Pore Size (µm)	Flow Time (s)	Volume/Vacuum (mL/ in Hg)	Flow Rate (mL/min/cm ² @ 10psi)	Bubble Point (psi)
0.1	198-263	250/20	6.05-8.03	80-110
0.22	60-136	250/20	11.70-26.51	52-65
0.45	23-46	250/20	34.58-69.16	30-42
0.65	13-35	250/20	45.45-122.36	25-42
0.8	5-18	250/20	88.37-318.13	11-19
1.2	30-80	500/5	159-424	9-18
5.0	13-36	500/5	353-979	6-15
8.0	3-25	500/5	509-4242	4-11

Disc and Sheet Membranes

Mixed Cellulose Esters membrane - Sterile, white and black

Ordering information

	Individually Packaged Without Pad Gridded				
Dimensions Packaging	47 mm 100/pk	47 mm 100/pk	47 mm 1000/pk	47 mm 1000/pk	50 mm 1000/pk
Color	white	black	white	black	white
Pore sizes	0.22 µm	1216720	1214396		
	0.45 µm	1216721	1216719	1214923	1213643 1222980
	0.7 µm		1216718	1221948	

Cellulose Mixed Esters - Non sterile, white and black

Dimensions Packaging	13 mm 100/pk	25 mm 100/pk	25 mm Gridded 100/pk	25 mm 100/pk	25 mm Gridded 100/pk
Color	white	white	white	black	black
Pore sizes	0.1 µm	1214527			
	0.22 µm	1214882	1214898		
	0.45 µm	1215257	1215263		
	0.65 µm		1215376		
	0.8 µm	1215424	1215425	1215419	1215415 1215411
	1.2 µm	1215438	1215440	1215435	
	5.0 µm	1215448	1215450		
	8.0 µm		1215455		

Dimensions Packaging	47 mm 100/pk	47 mm Gridded 100/pk	47 mm 100/pk	47 mm Gridded 100/pk	90 mm 25/pk
Color	white	white	black	black	white
Pore sizes	0.1 µm	1214533			
	0.22 µm	1214909	1214839		1214941
	0.45 µm	1215281	1215207	1214977	1215305
	0.65 µm	1215380			
	0.8 µm	1215428	1215421	1215416	1215412 1215431
	1.2 µm	1215441	1215437		1215442
	5.0 µm	1215451			1215452
	8.0 µm	1215456		3053377	1215027

Dimensions Packaging	142 mm 25/pk	293 mm 25/pk	20x20 cm 5/pk	20x20 cm 5/pk
Color	white	white	white	black
Pore sizes	0.1 µm	1214554	1214565	
	0.22 µm	1214950	1214959	1215464
	0.45 µm	1215316	1215323	1225781 3053082
	0.65 µm			
	0.8 µm	1215432	1215433	3050851
	5.0 µm	1215453		
	8.0 µm	1221955		