

# Whatman GD/X™ Syringe Filters

When you need to filter a high particulate solution, choose the Whatman GD/X Syringe Filter. This top-of-the-line disposable syringe filter allows you to filter more of your sample in less time, significantly enhancing lab efficiency.

## Features and benefits

- **Increased volume throughput:** Volume of sample filtered can be three to seven times greater than conventional filters.
- **Superior performance:** Four layers of filtration media reduce blockage and the need to replace the filter in mid-operation.
- **Less hand force required:** The unique pre-filter layer allows high particulate samples to be filtered with less hand force, minimizing operator fatigue.

## Applications

- Hard-to-filter samples
- Dissolution testing
- Content uniformity
- Environmental samples
- Composite assays
- Food analysis
- Biofuel analysis



Fig 1. Filter more of your high particulate sample.

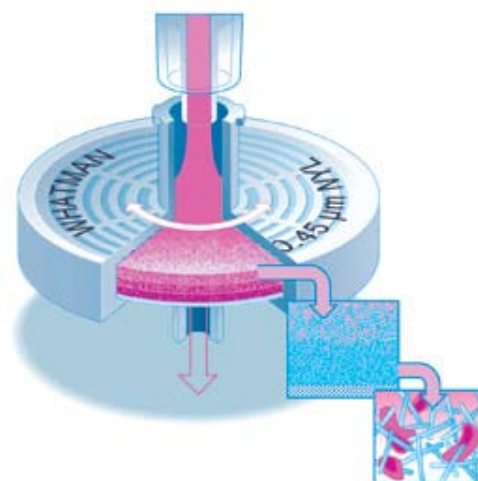
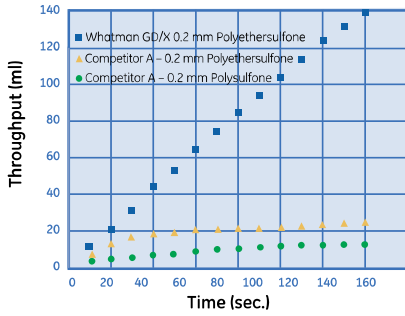


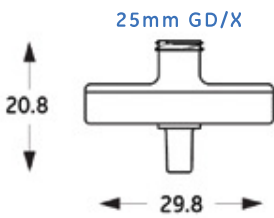
Fig 2. Proprietary Whatman filtration layers significantly enhance sample preparation efficiency.



Whatman vs. competition



Dynamic throughput via 25 mm syringe filters was tested at 10 psi with 2.5% TSB (Trypticase Soy Broth) + 0.02% of Sodium Azide



GD/X syringe filters contain four filtration layers which help reduce blockage and increase volume throughput.



**Layers 1 & 2**  
Glass microfiber prefilter GMF 150 (graded density) Filters from 10 µm to 1 µm



**Layer 3**  
Glass microfiber prefilter GF/F filters down to 0.7 µm



**Layer 4**  
Membrane filter Nylon, PVDF, PTFE, R.C., etc. Filters down to 0.45 µm or 0.2 µm

[www.gelifesciences.com/GDX](http://www.gelifesciences.com/GDX)

GE Healthcare Bio-Sciences Corp.  
800 Centennial Avenue, P.O. Box 1327  
Piscataway, NJ 08855-1327 USA



Table 1. Characteristics

<b>Filtration area</b>	<b>13 mm:</b> 1.3 cm <sup>2</sup>	<b>25 mm:</b> 4.6 cm <sup>2</sup>
<b>Maximum pressure</b>	<b>13 mm:</b> 100 psi (6.9 bar) at 20°C	<b>25 mm:</b> 75 psi (5.2 bar) at 20°C
<b>Materials of construction</b>	<b>Housing:</b> Polypropylene	<b>Filtration Media:</b> As specified
<b>Hold-up volume</b>	<b>13 mm:</b> Full Housing: ~0.5 ml	<b>With Air Purge:</b> ~50 µl
	<b>25 mm:</b> Full Housing: ~1.0 ml	<b>With Air Purge:</b> ~250 µl
<b>Connectors</b>	<b>Inlet:</b> Female Luer Lock (FLL)	<b>Outlet:</b> Male Luer (ML)
<b>Flow direction</b>	Flow from inlet to outlet (FLL to ML)	
<b>Sterilization</b>	Can be autoclaved at 121°C at 15 psi for 20 minutes	

Table 2. Ordering information

Pack Size	Pore Size# (µm)	Depth Filter Glass Microfiber	Membrane							
			Nylon	Nylon High Charge (Positive)	PVDF	PTFE	PES	Cellulose Acetate	Polypropylene	Regenerated Cellulose
<b>13 mm Syringe Filters Non-Sterile</b>										
150	0.2		6870-1302		6872-1302	6874-1302	6876-1302	6880-1302	6878-1302	
	0.45 (GMF)	6894-1304	6870-1304		6872-1304	6874-1304	6876-1304	6880-1304	6878-1304	
	0.7(GF/F)	6890-1307								
	1.0* (GF/B)	6884-1310								
	1.2* (GF/C)	6886-1312								
	1.6* (GF/A)	6882-1316								
1500	0.2		6871-1302			6875-13202				
	0.45		6871-1304		6873-1304	6875-1304				
<b>25 mm Syringe Filters Non-Sterile</b>										
150	0.2		6870-2502	6869-2502	6872-2502	6874-2502	6876-2502	6880-2502	6878-2502	6887-2502
	0.45	6894-2504	6870-2504	6869-2504	6872-2504	6874-2504	6876-2504	6880-2504		6882-2504
	0.7(GF/F)	6890-2507								
	1.0* (GF/B)	6884-2510								
	1.2* (GF/C)	6886-2512								
	1.5* (934-AH)	6892-2515								
	1.6* (GF/A)	6882-2516								
	2.7* (GF/D)	6888-2527								
1500	5.0		6870-2550							
	0.2		6871-2502		6873-2502	6875-2502	6905-2502	6881-2502		6888-2502
	0.45 (GMF)	6895-2504	6871-2504		6873-2504	6875-2504	6905-2504	6881-2504		6883-2504
	0.5 (GMF)	6871-2550								
	0.7(GF/F)	6891-2507								
500	0.2						6897-2502			
	0.45						6897-2504			
<b>25 mm Syringe Filters Sterile</b>										
50	0.2				6900-2502		6896-2502	6901-2502		
	0.45 (GMF)	6902-2504			6900-2504		6896-2504	6901-2504		

\*Contains GMF 150 but not GF/F Layer.  
#Depth filters are rated based on particle retention.

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