

# 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

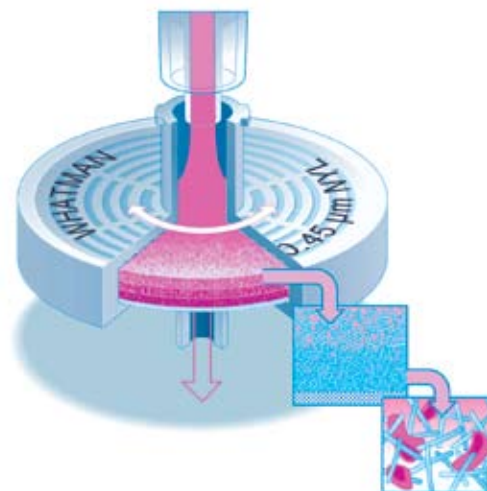
- **Increased volume throughput:** Volume of sample filtered can be three to seven times greater than conventional filters.
- **Superior performance:** Four layers of filtration media reduce blockage and the need to replace the filter in mid-operation.
- **Less hand force required:** The unique pre-filter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



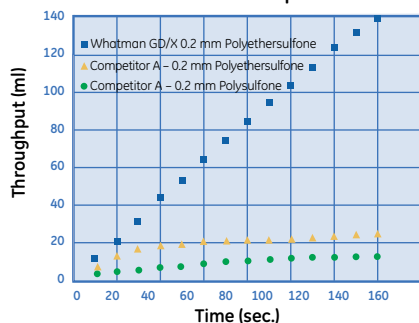
**Fig 1.** Filter more of your high particulate sample.



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

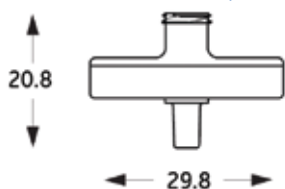


Whatman vs. competition



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

25mm GD/X



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, RC, etc. Filters down to 0.45 µm or 0.2 µm

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

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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>25 mm:</b> Full Housing: ~1.0 ml	<b>With Air Purge:</b> ~50 µl <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
13 mm Syringe Filters Non-Sterile										
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								
	2.7* (GF/D)	6888-1327								
1500	0.2		6871-1302			6875-13202				
	0.45		6871-1304		6873-1304	6875-1304				
25 mm Syringe Filters Non-Sterile										
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								
	5.0		6870-2550							
1500	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								
	1.6* (GF/A)	6883-2516								
25 mm Syringe Filters Sterile										
50	0.2				6900-2502		6896-2502	6901-2502		
	0.45 (GMF)	6902-2504			6900-2504		6896-2504	6901-2504		
500	0.2						6897-2502			
	0.45						6897-2504			

\*Contains GMF 150 but not GF/F Layer.

#Depth filters are rated based on particle retention.

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