

# Difficult to filter

## Whatman GD/X™ syringe filters

The Whatman GD/X™ syringe filter range is specifically designed for difficult to filter, high particulate loaded samples. Constructed of a pigment-free polypropylene housing with a prefiltration stack of GMF 150 (graded density) and GF/F glass microfiber media, these filters remove sample contamination and allow you to filter even the most difficult samples with less hand pressure. Whatman GD/X™ syringe filters can process three to seven times more sample volume than standard syringe filters.

GMF 150 and GF/F are produced from 100% borosilicate glass microfiber. Graded density GMF 150 medium has a coarse top layer meshed with a fine bottom layer that retains particles to 1.0 µm. A GF/F filter then retains particles down to 0.7 µm. The prefilter stack ends with a final membrane. The filter construction facilitates exceptional loading capacity with fast flow rates. This prevents the build-up of back pressure typically caused by the blocking of an unprotected membrane.

### Features and benefits

- 13 mm devices for samples up to 10 mL and 25 mm devices for samples greater than 10 mL. The volume of sample that can be filtered through each filter depends on the characteristics of the sample.
- Sterile options.
- Pigment-free polypropylene housing.
- Prefiltration stack of GMF 150 (graded density) and GF/F glass microfiber media.
- Minimizes sample contamination.
- Requires less hand pressure, even with the most difficult samples.
- Processes three to seven times more sample volume.

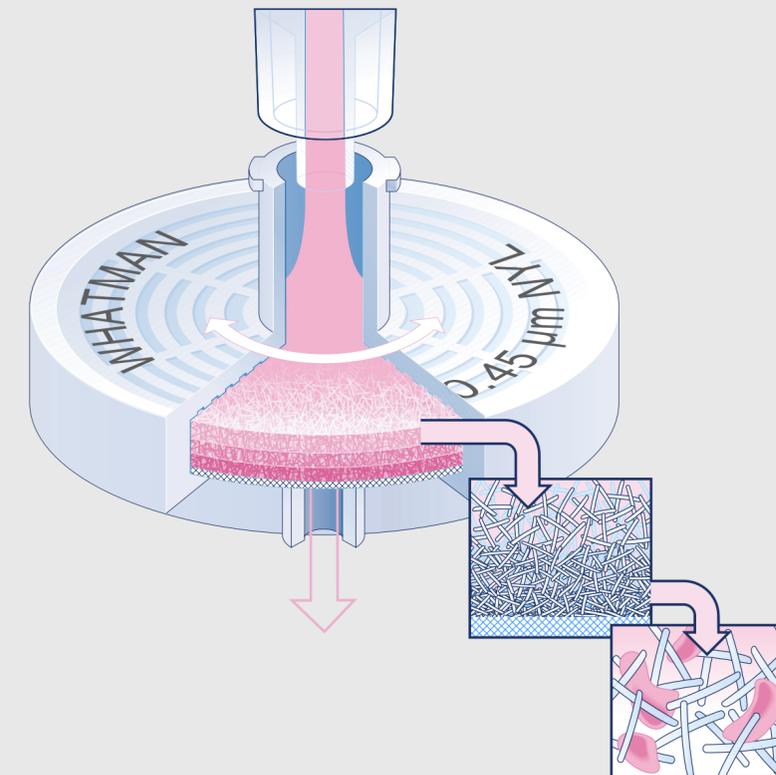
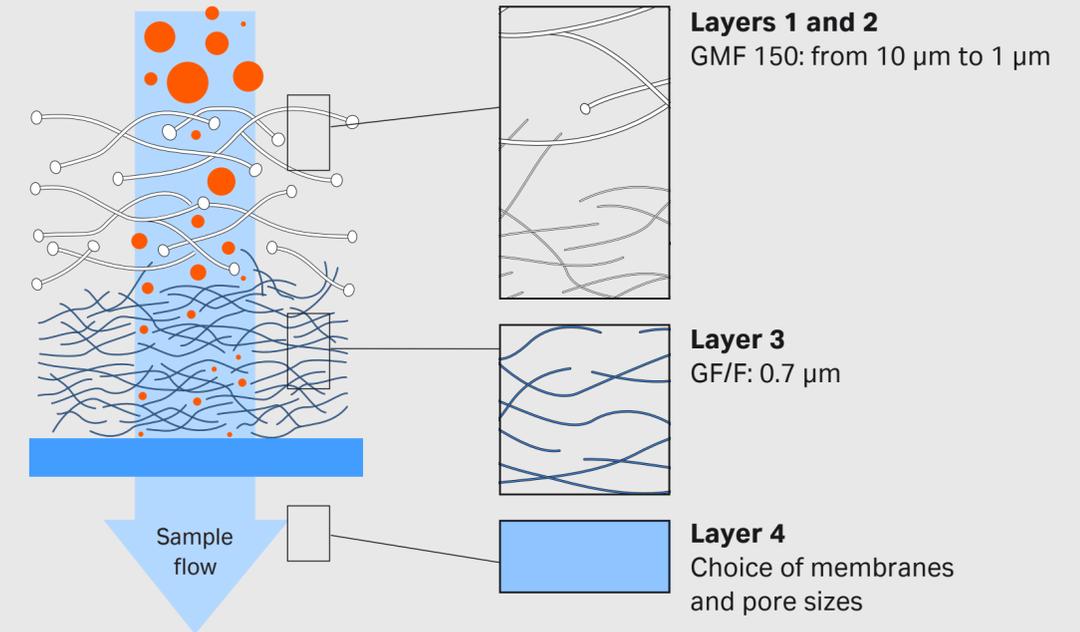


# Technical specifications

## Whatman GD/X™ syringe filters

	Whatman GD/X™ 13 mm syringe filters	Whatman GD/X™ 25 mm syringe filters
Housing	Polypropylene (pigment free)	Polypropylene (pigment free)
Filtration area	1.3 cm <sup>2</sup>	4.6 cm <sup>2</sup>
Maximum pressure	100 psi (6.9 bar)	75 psi (5.2 bar)
Volume hold-up*—full housing	0.5 mL	1.4 mL
—with air purge	50 µL (approx)	250 µL (approx)
Dimensions*	20.8 × 30.0 mm	20.8 × 30.0 mm
Weight	3 g (approx)	3 g (approx)
Flow direction	Flow should enter from the inlet	Flow should enter from the inlet
Inlet connection	Female Luer lock	Female Luer lock
Outlet connection	Male Luer	Male Luer
Sterilization	Autoclave at 121°C (131°C max) at 15 psi (1 bar) for 20 min	Autoclave at 121°C (131°C max) at 15 psi (1 bar) for 20 min
Glass microfiber prefiltration media	100% borosilicate glass fiber GMF 150 10 µm: 1 µm GF/F 0.7 µm	100% borosilicate glass fiber GMF 150 10 µm: 1 µm GF/F 0.7 µm

\* Housings are the same size but the filtration size is smaller



# Ordering information

## Whatman GD/X™ syringe filters

Pore size (µm)	Catalog number	Media	Quantity/pack
<b>Whatman GD/X™ 13 mm syringe filters—nonsterile</b>			
0.2	6880-1302	CA	150
0.45	6880-1304	CA	150
0.2	6870-1302	Nylon	150
0.2	6871-1302	Nylon	1500
0.45	6870-1304	Nylon	150
0.45	6871-1304	Nylon	1500
0.2	6876-1302	PES	150
0.45	6876-1304	PES	150
0.2	6872-1302	PVDF	150
0.45	6872-1304	PVDF	150
0.45	6873-1304	PVDF	1500
0.2	6878-1302	PP†	150
0.45	6878-1304	PP†	150
0.2	6874-1302	PTFE	150
0.2	6875-1302	PTFE	1500
0.45	6874-1304	PTFE	150
0.45	6875-1304	PTFE	1500
1.6*	6882-1316	GF/A†	150
1.0*	6884-1310	GF/B†	150
1.2*	6886-1312	GF/C™†	150
2.7*	6888-1327	GF/D†	150
0.7*	6890-1307	GF/F†	150
0.45*	6894-1304	GMF	150
<b>Whatman GD/X™ 25 mm syringe filters—nonsterile</b>			
0.45	6882-2504	RC	150
0.2	6888-2502	RC	1500
0.45	6883-2504	RC	1500
0.2	6880-2502	CA	150
0.45	6880-2504	CA	150
0.45	6881-2504	CA	1500
0.2	6869-2502	Nylon high charge (positive)	150
0.45	6869-2504	Nylon high charge (positive)	150
0.2	6870-2502	Nylon	150
0.2	6871-2502	Nylon	1500
0.45	6870-2504	Nylon	150
0.45	6871-2504	Nylon	1500
5.0	6870-2550	Nylon	150
5.0	6871-2550	Nylon	1500

Pore size (µm)	Catalog number	Media	Quantity/pack
<b>Whatman GD/X™ 25 mm syringe filters—nonsterile (continuation)</b>			
0.2	6876-2502	PES	150
0.2	6905-2502	PES	1500
0.45	6876-2504	PES	150
0.45	6905-2504	PES	1500
0.2	6872-2502	PVDF	150
0.2	6873-2502	PVDF	1500
0.45	6872-2504	PVDF	150
0.45	6873-2504	PVDF	1500
0.2	6878-2502	PP	150
0.45	6878-2504	PP	150
0.45	6879-2504	PP	1500
0.2	6874-2502	PTFE	150
0.2	6875-2502	PTFE	1500
0.45	6874-2504	PTFE	150
0.45	6875-2504	PTFE	1500
1.6*	6882-2516	GF/A†	150
1.6*	6883-2516	GF/A†	1500
1.0*	6884-2510	GF/B†	150
1.2*	6886-2512	GF/C™†	150
2.7*	6888-2527	GF/D†	150
0.7*	6890-2507	GF/F†	150
0.7*	6891-2507	GF/F†	1500
0.45*	6894-2504	GMF†	150
0.45*	6895-2504	GMF†	1500
1.5*	6892-2515	934-AH™†	150
<b>Whatman GD/X™ 25 mm syringe filters—sterile</b>			
0.2	6896-2502	PES	50
0.45	6896-2504	PES	50
0.2	6900-2502	PVDF	50
0.45	6900-2504	PVDF	50
0.45*	6902-2504	GMF†	50
0.2	6901-2502	CA	50
0.45	6901-2504	CA	50

\* Glass microfiber particle retention rating  
† Contains GMF 150 without the GF/F prefilter  
‡ Mildly hydrophobic

CA—Cellulose acetate  
GF—Glass fiber  
GMF - Glass microfiber  
PES—Polyethersulfone

PP—Polypropylene  
PTFE—Polytetrafluoroethylene  
PVDF—Polyvinylidene difluoride  
RC—Regenerated cellulose