



Glass Fiber Prefilters for Larger Totally Filterable Volumes in Clarification and Sterile Filtration

The major use of all three glass fibre filters is as a depth prefilter, placed directly on top of a membrane filter, whereby the prefilter diameter specified for the holder must be chosen. Larger diameters would intrude under the sealing ring of the holder and cause leakage.

The standard type 13400 contains an acrylic latex binder. It has a high particle loading capacity, but for very "dirty" liquids the thicker type 13430 can be more effective. 13440 is a finer, binder-free type, and is recommended for the prefiltration of relative clean solutions such as tissue culture media.

Serial filtration may be necessary for difficult-to-filter liquids such as serum. 2 or 3 membrane filters of different pore sizes are placed on each other, with a glass fibre prefilter on top and polyester separators 13420 between them (diameter as for prefilter) to assist liquid passage.

Typical performance

Flow rates for water	At $\Delta p = 1$ bar (100 kPa, 14.5 psi), 320 ml/min/cm ² for 13400
Materials	13400, glass fibre with acrylic latex binder.
Sterilization	By dry heat, at 180°C or by autoclaving at 121°C or 134°C.
Thermal stability	220°C for 13400
Thickness	Ca. 0.55 mm for 13400

Order numbers

a) Type 13400, standard glass fibre filters	13400-013 S	13 mm, pack of 200
	13400-042 Q	42 mm, pack of 500
	13400-044 Q	44 mm, pack of 500
	13400-047 Q	47 mm, pack of 500
	13400-050 Q	50 mm, pack of 500
	13400-100 K	100 mm, pack of 50
	13400-120 K	120 mm, pack of 50
	13400-124 K	124 mm, pack of 50
	13400-127 K	127 mm, pack of 50
	13400-130 K	130 mm, pack of 50
	13400-142 K	142 mm, pack of 50
	13400-150 K	150 mm, pack of 50
	13400-257 K	257 mm, pack of 50
	13400-260 K	260 mm, pack of 50
13400-279 K	279 mm, pack of 50	
13400-293 K	293 mm, pack of 50	
b) Type 13430, extra thick glass fibre filters	13430-127 K	127 mm, pack of 50
	13430-130 K	130 mm, pack of 50
	13430-142 K	142 mm, pack of 50
	13430-257 K	257 mm, pack of 50
	13430-279 K	279 mm, pack of 50
13430-293 K	293 mm, pack of 50	
c) Type 13440, binder-free glass fibre filters	13440-042 Q	42 mm, pack of 500
	13440-044 Q	44 mm, pack of 500
	13440-047 Q	47 mm, pack of 500
	13440-050 Q	50 mm, pack of 500
	13440-130 K	130 mm, pack of 50
d) Type 13420, polyester separators	13420-088 K	88 mm, pack of 50