

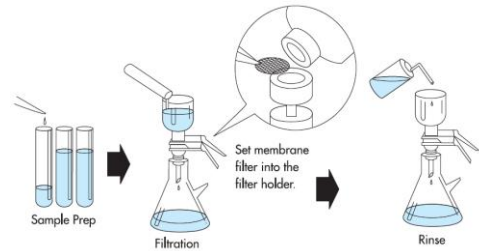
MICROBIOLOGY MEMBRANE FILTER TECHNIQUE

ADVANTEC® MCE Membrane Filters

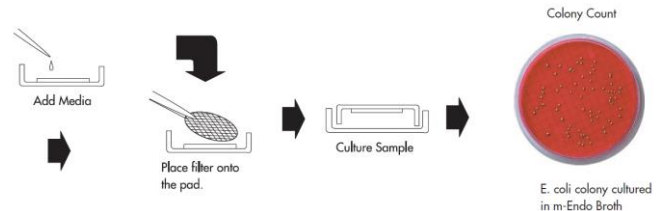
Advantec MCE membranes are manufactured to ensure superior quality and reproducibility. All 0.45µm white gridded membranes are tested for Coliform, Fecal Streptococci, and *Serratia marcescens*. All 0.65µm are tested to ensure complete retention and optimal recovery of Fecal Coliform and *Saccharomyces cerevisiae*. Our Black and Green membranes are tested for optimal recovery of yeast and total bacteria. Additional tests are performed for uniform wetting, freedom from grid line inhibition, and optimal color reactions on appropriate test media. Quality Assurance Certification is available for individual lot numbers..

Application:

Ideal for capturing and culturing microorganisms using the MF Technique in the Water and Wastewater Industry.



Sample Filtration and Growth Procedures



TEST ORGANISM	TEST METHOD	PORE/RETENTION
Total Coliforms	9222 B	0.45 µm
Fecal Coliforms	9222 D	0.45 µm
	9230 C	
Total Bacteria		0.20 µm
	9215 D	0.45 µm
<i>Salmonella</i>	9260 B	0.45 µm
<i>Pseudomonas sp</i>	9213	0.20 µm
(<i>Pseudomonas aeruginosa</i>)	9213 E	0.80 µm

Specifications & Ordering Information

47mm Sterile Membranes, Gridded (100/pk)

Pore size	Color	Item	
		Without Pad	With Pad
0.20 µm	white	A020H047A	A020F047A
	0.45 µm	A045H047A	A045F047A
0.45 µm	white	A045H047A-P	-
	black	A045R047A	A045M047A
		A045R047A-P	-
	green	A045W047A	-
0.65 µm	white	A065H047A	A065F047A
0.80 µm	white	A080H047A	A080F047A
	black	A080R047A	A080M047A

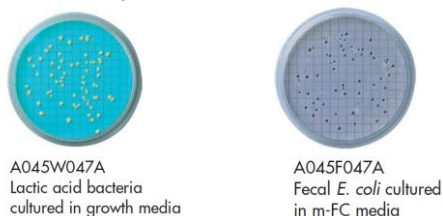
Other grades, diameters and pack quantities are available.

SUPPORTING PRODUCTS:

Petri-dishes	Item (Cat. No.)
<i>With Pad</i>	PD-47B (42004020)
<i>Without Pad</i>	PD-47A (42004010)
Absorbent Pads	B200G047A (02511049)
Filterceps	FS-1 (17800000)
SS Manifold w/ 3-Way Valve	
3-Place	KM-3N (17313100)
6-Place	KM-6N (17313300)
47mm Holder w/ Funnel	
Glass base, glass frit	KG-47(17311400)
Glass base, ss screen	KGS-47(17311500)
Stainless Steel	KSF-47(17312600)
Polysulfone	KP-47W(43301050)



Sample Growth Results



TSS TESTING -- Standard Methods 2540

ADVANTEC® Glass Fiber Filters: Grade GA-55

Advantec GA-55 Glass Fiber Filters are free of binders and made of pure, fine borosilicate glass. These high purity filters have a fast flow rate and a high loading capacity.

Application

Ideal for TSS (Total Suspended Solid) Analysis in the Water and Wastewater Industry.

Specifications

Nominal Rating	Weight	Thickness	Water Flow Time ¹	Binder	Max. Operating Temp.
0.6 µm	55 g/m ²	0.21 mm	23 sec.	None	500°C

¹Flow time is the time in seconds to filter 1,000 mL of distilled water at 20°C under differential pressure of 39 kPa through a 9.6 cm² section of filter.

Ordering Information

Catalog No.	Item	Catalog No.	Item	Catalog No.	Item
36261024	GA-55 24mm dia.	36261047	GA-55 47 mm dia.	36261090	GA-55 90 mm dia.
36261025	GA-55 25 mm dia.	36261055	GA-55 55 mm dia.	36261110	GA-55 110 mm dia.



OIL & GREASE TESTING -- Standard Methods 5520

ADVANTEC® Quantitative Filter Papers: Grade No.5B

Advantec Quantitative Filter Papers are made of 99% alpha cotton cellulose which has a high degree of polymerization. The low 0.01% ash content makes it the preferred filter for quantitative analysis.

Application

Ideal for Oil and Grease testing in the Water and Wastewater Industry.

Specifications

Nominal Rating	Thickness	Weight	Flow Time ¹	Absorption Speed ²	Wet Strength ³
4 µm (Medium)	0.21 mm	108 g/m ²	195 sec.	7.0 cm	12 kPa

¹Flow time is the time in seconds required to filter 100 mL of distilled water at 20°C under pressure supplied by a 10 cm water column through a 10 cm² section of filter paper. ²Absorption speed is the distance in cm that water will travel in an upright strip of filter paper in 10 minutes at 20°C. ³Wet Strength is the pressure measured by Mullen Burst Strength Tester after soaking in water.

Ordering Information

Catalog No.	Item	Catalog No.	Item
01521110	No.5B 110 mm dia.	01521150	No.5B 150 mm dia.
01521125	No.5B 125 mm dia.	01521185	No.5B 185 mm dia.

Additional grades and diameters are available. Please contact us.



Standard Methods for the examination of water and wastewater is the publication by the American Public Health Association (APHA), the American Water Works Association (AWWA) and the Water Environment Federation (WEF).

Contact:

ADVANTEC®

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