



ADVANTEC® TECHNOLOGY



FOR WATER QUALITY

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.

| TEST ORGANISM | TEST METHOD | PORE/RETENTION |
|-----------------------------------|------------------|--------------------|
| Total Coliforms | 9222 B | 0.45 µm |
| Fecal Coliforms | 9222 D 9230 C | 0.45 µm |
| Total Bacteria | 9215 D | 0.20 µm 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 Membrane with Grid (100/pk)

| Pore size | Color | Catalog No. | |
|-----------|-------|-------------|-----------|
| | | Without Pad | With Pad |
| 0.20 µm | white | A020H047A | A020F047A |
| | | A045H047A | A045F047A |
| 0.45 µm | white | A045H047A-P | - |
| | | A045R047A | A045M047A |
| | black | A045R047A-P | - |
| | | A045W047A | - |
| 0.65 µm | white | A065H047A | A065F047A |
| 0.80 µm | white | A080H047A | A080F047A |
| | black | A080R047A | A080M047A |

SUPPORTING PRODUCTS:

| | |
|------------------------------------|--------------------|
| Petri-dishes | Catalog No. |
| <i>With Pad</i> | 800101 |
| <i>Without Pad</i> | 800100 |
| Absorbent Pads | B200G047A |
| Filterceps | 18800000 |
| SS Manifold w/ 2-Way Valve | |
| <i>3-Place</i> | 353100 |
| <i>6-Place</i> | 353300 |
| 47mm Holder w/ 300mL Funnel | |
| <i>Glass base, glass frit</i> | 311400 |
| <i>Glass base, ss screen</i> | 311500 |
| <i>Stainless Steel</i> | 352600 |
| <i>Polysulfone</i> | 501050 |
| Culture Media | (various) |

Other grades, diameters, and pack quantities are available.

TSS TESTING Standard Methods 2540

ADVANTEC® Glass Fiber Filter - Grade GA55

Advantec GA55 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 Rate ¹ | Binder | Max. Operating Temp. |
|----------------|---------------------|-----------|------------------------------|--------|----------------------|
| 0.6 µm | 55 g/m ² | 0.21 mm | 23 sec. | None | 550°C |

¹Flow time is 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.

Ordering Information

| Size | Catalog No. | Size | Catalog No. | Size | Catalog No. |
|-------|-------------|-------|-------------|--------|-------------|
| 24 mm | GA5524MM | 47 mm | GA5547MM | 90 mm | GA5590MM |
| 25 mm | GA5525MM | 55 mm | GA5555MM | 110 mm | GA55110MM |

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 | 19.4 cm H ₂ O |

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 height in cm of a water column that will rupture a 10 cm² section of filter paper.

Ordering Information

| Size | Catalog No. | Size | Catalog No. |
|---------|-------------|---------|-------------|
| 11.0 cm | N05B11.0CM | 15.0 cm | N05B15.0CM |
| 12.5 cm | N05B12.5CM | 18.5 cm | N05B18.5CM |

Additional grades and diameters are available. Please contact our Customer Service at 1-800-334-7132 (US)