

### Highlights

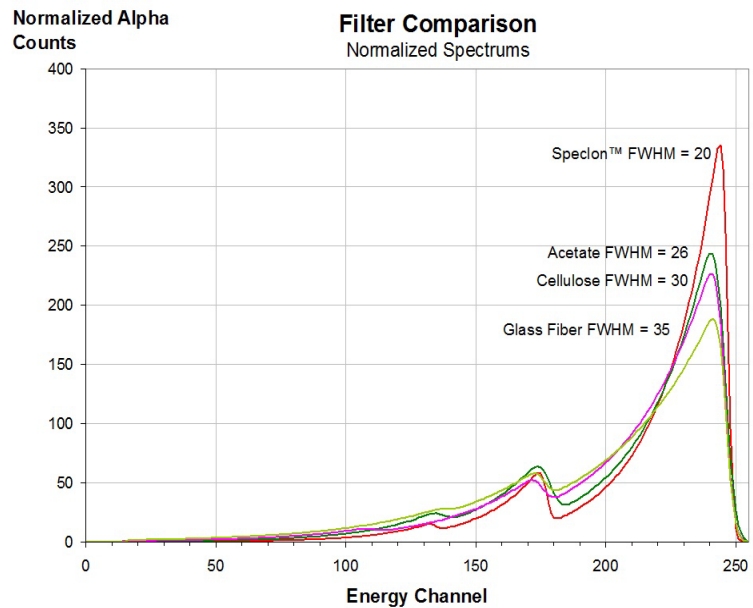
- Form options are Fixed Filter disks or Moving Filter rolls
- Reverse side marked "Pump Side"
- Greatly reduces background from radon progeny for alpha spectroscopy
- Available in stock diameters 33mm, 37mm and 47mm
- Available in moving filter rolls 15-meters x 35mm
- Low pressure drop for flow rates up to 4 CFM
- Durable polyester backing will not tear or break
- Conveniently packaged in boxes of 100 filters or in rolls
- Quick turn around for custom sizes and shapes

### Introduction

Bladewerx Speclon™ PTFE-membrane filter media is recognized for its superior surface deposition characteristic, resulting in sharper energy resolution for alpha spectroscopy applications. Whether the application is continuous air monitoring, or personal/fixed air samplers with retrospective analysis, Bladewerx Speclon filters can provide a cost-effective alternative to glass fiber, cellulose, or acetate filters.



In alpha air monitoring for plutonium or transuranics, improved energy resolution means reduced background from interfering radon decay peaks. In many facilities, alpha air quality is determined retrospectively by gross counting after radon daughters have been decayed. By switching to Speclon filters, samples can be counted immediately using alpha spectroscopy, without waiting for radon products to decay, thereby improving worker safety.



## Fixed Filters & Moving Filters

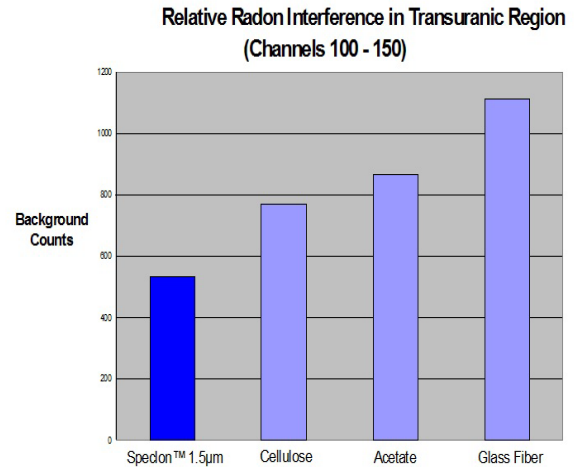
Speclon filter media is available for instruments with either a fixed filter or moving filter sampling head. Fixed Filters are manufactured as individual disks in a variety of diameters. They are changed manually at regular intervals and are the standard for most CAMs. Speclon fixed filter disks are marked with a "Pump Side" stamp to indicate how they should be inserted into the sampling head. They are packaged in 100 count boxes with colored dividers for ease of use.

Moving filter rolls are available in 15 meter lengths that are 35mm wide. Standard rolls have a 1-inch inner diameter and protective side panels with a 3-inch outer diameter.

## Specifications

Speclon 1.5	
Pore Size:	1.5 µm
Air Flow @ 0.7 bar:	30 LPM/cm <sup>2</sup>
Thickness:	10 Mils
Backing:	Polypropylene

Speclon 5	
Pore Size:	5 µm
Air Flow @ 0.7 bar:	120 LPM/cm <sup>2</sup>
Thickness:	12 Mils
Backing:	Polypropylene



## Recommendations

The Speclon filter pore size and filter diameter affect the pressure drop across the filter during sampling. For this reason, applications requiring higher flow rates should use the 5-micron pore size filters. The table below lists the maximum recommended flow rates based on filter type and diameter.

## Max Recommended Flow Rates (LPM)

Product	Part Number	Pore Size (microns)	Filter Diameter		
			25mm	37mm	47mm
Speclon 1.5	BSP-FILT-15Bxxx	1.5	10	15	28
Speclon 5	BSP-FILT-50Bxxx	5	40	90	115

Call for custom sizes.

Where "xxx" is the filter diameter in mm (e.g. 025).  
Standard filter color is white with white backing.