



Specclon™

PTFE-Membrane Filters

Introduction

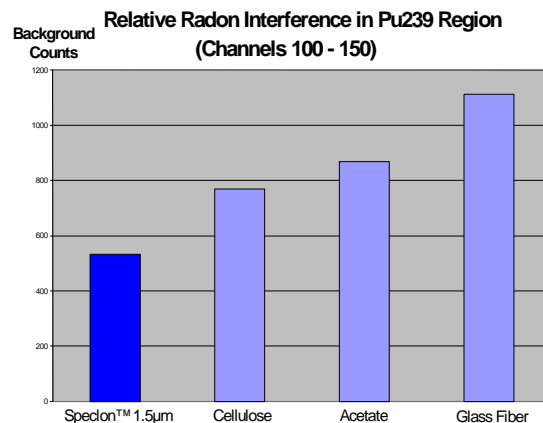
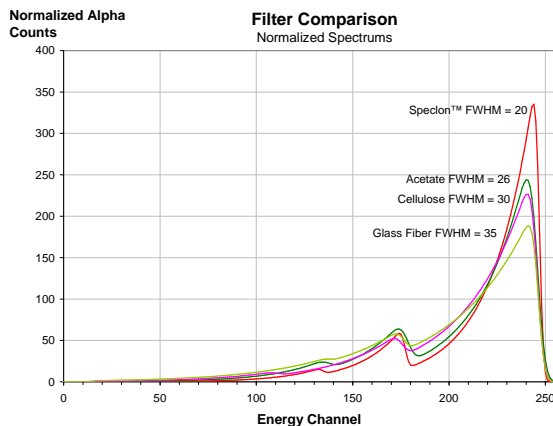
Bladewerx **Specclon™** PTFE-membrane filter media is recognized for its superior surface deposition characteristic, resulting in sharper energy resolution for alpha spectroscopy applications. Whether the application is continuous air monitoring, or personal/fixed air samplers with retrospective analysis, Bladewerx **Specclon** 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 **Specclon** filters, samples can be counted immediately using alpha spectroscopy, without waiting for radon products to decay, thereby improving worker safety.

Available in both 1.5-micron and 5.0-micron pore sizes, and in a variety of diameters, there is a Bladewerx **Specclon** filter to meet any sampling rate or collection diameter requirement.

Highlights

- § PTFE-membrane (Polyester-backed)
- § Greatly reduces background from radon progeny for alpha spectroscopy
- § Available in a variety of diameters
- § Low pressure drop for flow rates up to 2 CFM
- § Durable polyester backing will not tear or break
- § Conveniently packaged in boxes of 100 filters
- § Custom sizes and shapes



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Specifications

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

Speclon 5.0	
Pore Size:	5.0 μm
Air Flow @ 0.7 bar:	120 LPM/cm ²
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 5.0- or 7.0-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	34mm	37mm	47mm
Speclon 1.5	BSP-FILT-15Bxxx	1.5	5	8	10	15
Speclon 3.0	BSP-FILT-30Bxxx†	3.0	10	16	20	35
Speclon 5.0	BSP-FILT-50Bxxx	5.0	15	25	35	55
Speclon 7.0	BSP-FILT-70Bxxx†	7.0	20	40	50	75

Where "xxx" is the filter diameter (e.g. 037).
 Standard filter color is white with white backing.
 † 3.0 and 7.0 μm pore sizes are special order items.



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